

# AUTUMN HALL

*The Official Journal of the Foundation For Amateur Radio, Inc.*

**JULY 1995**

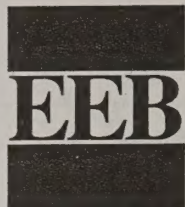


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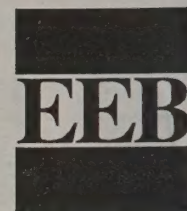


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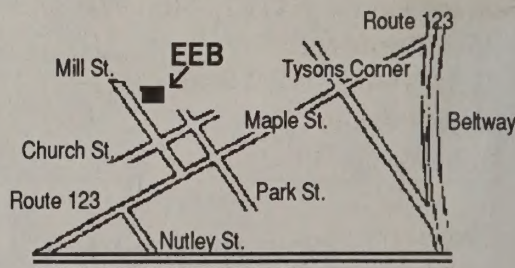
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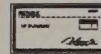
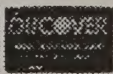
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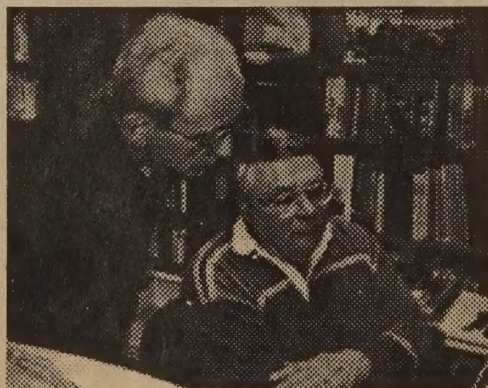
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# Regional Hamfests and Other Events

July 2	Wilkes-Barre Murgas ARC Hamfest, Lehman, PA (717) 824-5724
July 4	HRAC Hamfest/Computer Show, Harrisburg, PA (717) 232-6087
July 9	BRATS Maryland Hamfest & Computer Fest, Timonium, MD (410) 467-4634
July 9	Genesee Radio Amateurs, Alexander, NY
July 9	North Hills Amateur Radio Club, Pittsburgh, PA
July 22	Jonestown Mt. Repeater Hamfest, Huntington Mills, PA
July 22	Utica ARC Hamfest, Utica, NY
July 23	Mid-Atlantic DX Hamfest '95, Brunswick, MD (301) 416-8447
July 23	Indiana County Amateur Radio Club, Indiana, PA
July 29	Columbia-Montour ARC Hamfest, Berwick, PA
August 5	Jefferson County ARC Hamfest, Clayton, NY
August 5	7th Annual High Point RC Hamfest, High Point, NC
August 6	Mid-Atlantic Amateur Radio Club Hamfest 95, Warrington, PA (215) 624-4034
August 6	Shenandoah Valley ARC Winchester Hamfest, Berryville, VA (703) 955-1745
August 6	Skyview Amateur Radio Club, New Kensington, PA
August 12	Fingerlakes Hamfest, Ithica, NY
August 13	SARA Carroll County Computer & Hamfest, Westminster, MD (410) 859-1475
August 13	Del Lehigh ARC Hamfest, Easton, PA
August 13	Queen City Hamfest/Computer Fair, Charlotte, NC
August 20	Delmarva, Georgetown, DE
August 27	Goucester County Amateur Radio Club, Mullica Hill, NJ
Sept. 2/3	39th Annual Hamfest, Shelby, NC
Sept. 9	Radio Association of Erie Hamfest, Erie, PA
Sept. 10	Butler County ARA Hamfest, Butler, PA
Sept. 10	F.A.R. FEST, Gaithersburg, MD (details in an upcoming issue of <i>AutoCall</i> )
Sept. 16	Buffalo Hamfest, Hamburg, NY
Sept. 16	Fallfest, South Boston, VA
Sept. 16	ARRL Westion NY Section Convention, Hamburg, NY
Sept. 17	South Jersey Radio Association, Pennsauken, NJ
Sept. 23/24	Hamfest & Computer Fair, Virginia Beach, VA



(photo by Dick Logan / WB3EPX)

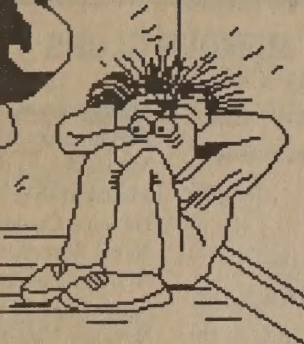
## On The Cover

Pictured on this month's cover of *Auto Call*, is Bernie Keiser / WD4O (left) and Jim Tury / KA4CKI (right) of the Metrovision Amateur TV Club. Bernie and Jim are checking out the ham gear at Dick Logan's / WB3EPX QTH during a recent Metrovision meeting. Metrovision Amateur TV Club runs an ATV net each Sunday at 8:00 PM and a ragchew each Wednesday at 8:00 PM on 144.97.



# Editor's Corner

By John Queen  
KAØSEY



Every now and then we all run into that 'deal of a lifetime'. We find ourselves searching for that ever elusive 'gotta buy it now before someone else snatches it up' opportunity. Looking for a good deal can be an exciting and pleasant experience, or sometimes it can be frustrating to realize that you've just been ripped off.

Searching for good quality used ham radio gear is no exception. We've all been to the Hamfests, browsed the Shack Sales, or searched the classified listings on the major bulletin board systems.

My XYL (Katherine/N3PXG) and I have found several good deals on used gear in recent months, including a mint condition Icom 765 for \$1350.00. But probably the best deal I've heard of in recent years is the story that follows.

According to an article in the *Wall Street Journal*, it seems that a ham radio operator in North Carolina (call unknown), did indeed find that 'deal of a lifetime'. His friend had recently visited an auction where he was the high bidder on a slightly used 'amplifier'. His friend plunked down the paltry sum of \$75.00 and brought the amplifier to the ham radio operator to see if he could make it work.

As it turns out, this 'amplifier' was a misplaced part of a top secret Milstar military communications satellite! It's value? A mere \$360,000.00!!

This story came to light when the ham radio operator contacted the defense contractor who built the amplifier asking for operating instructions!

When the Pentagon discovered that this piece of equipment was sold at a local auction, an all out investigation followed. It seems that the trucking company that was hired to transport the amplifier from the defense contractor to an Air Force base somehow lost the delivery paperwork, and the amplifier was sent over to the trucking company's Lost Freight department. The Lost Freight department in turn, not knowing where it came from or where it should go, turned it over to a local auctioneer house.

When the Air Force investigators showed up to retrieve the part, the buyer related that they "were a little bit huffy when they took it." The investigators also said that if the ham radio operator had been successful in getting the amplifier hooked up, it "would have knocked out every TV for two miles in every direction." Not exactly QRP operating equipment!

Now I don't know about you, but I would think that the United States government would have a preeettyyyy good handle on the whereabouts of a three-hundred-sixty-thousand dollar military communications amplifier. Go figure.

Recently, I went to an auction and got a good deal on a used briefcase for \$10.00. It's strange though. Inside there's a bunch of lights and switches and knobs with one red button marked "Launch". But since I already have a nice briefcase, I'm thinking about selling it. Anybody interested???

73's, de KAØSEY, John





## MEMBER CLUBS

Adams County Amateur Radio Society  
Alexandria Radio Club  
Amateur Radio Research and Develop. Corp.  
AMSAT - Radio Amateur Satellite Corporation  
Anne Arundel Radio Club  
Antietam Radio Association, Inc.  
ARINC Amateur Radio Club  
Arlington Amateur Radio Club  
Baltimore Amateur Radio Club  
Baltimore Radio Amateur Television Society  
Capital City Amateur Radio Society  
Capital Hill Amateur Radio Society  
Carroll County Amateur Radio Club  
Central Maryland Amateur Radio Club  
Chaverim of the Greater Washington Area  
Columbia Amateur Radio Association  
Culpeper Amateur Radio Association  
D-MARC - Digital Mid-Atlantic Radio Council  
Department of State Amateur Radio Club  
Fauquier Amateur Radio Association  
Frederick Amateur Radio Club  
Frederick Amateur Repeater Group  
Friendship Amateur Radio Club  
Goddard Amateur Radio Club  
Green Mountain Repeater Association  
Herndon Repeater Group  
IBM Amateur Radio Club  
Johns Hopkins University APL ARC  
Laurel Amateur Radio Club  
Leisure World Amateur Radio Club  
Loudoun Amateur Radio Group  
MD/DC MARS (Navy Marine) Association  
MADRAS  
Maryland Emergency Phone Net  
Maryland FM Association  
Maryland Mobiles Amateur Radio Club  
Mercury Amateur Radio Assn., NE Area  
Metropolitan Communications Network  
Metrovision Amateur TV Club  
Mid-Atlantic DX & Repeater Assn.

Montgomery Amateur Radio Club  
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Moose Amateur Radio Club  
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National Capitol DX Association  
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NOAA Amateur Radio Club  
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    Del-Mar-VA Chapter #150  
    Shenandoah Valley Chapter #137  
    Vic Clark Chapter #91  
    Washington Chapter #23  
Rock Creek Amateur Radio Association  
St. Mary's County Amateur Radio Association  
Shenandoah Valley Amateur Radio Club  
Southern Maryland Amateur Radio Club  
Southern Patuxent Amateur Radio Club  
Stafford Amateur Radio Assn.  
Sterling Park Amateur Radio Club  
Summit Amateur Radio Association  
Tri-County Amateur Radio Club  
T-MARC, Middle Atlantic Repeater Council  
Vienna Wireless Society  
Voice of America Amateur Radio Club  
Waldorf Repeater Support Club  
Washington Adventist Amateur Radio Assn.  
Washington Area Young Ladies ARC  
Woodbridge Wireless, Inc.

## NEXT FOUNDATION MEETING

The Foundation for Amateur Radio, Inc. meets at 8: p.m. on the second Wednesday of each month. **Visitors are always welcome!** The next meeting will be held on July 12 at the Lee Center, Alexandria, Virginia. Take Capitol Beltway to Exit 1 (US 1 North). North to the second traffic light, left on Gibbon Street to Fayette. Left on Fayette to dead end at Lee Center Parking Lot. The meeting is conducted in the conference room near the main office of the center.

**Talk-in on  
146.55**





# FCC Highlights

By Jack Kelleher.  
W4ZC

## Proposed changes to Part 97 of the Rules

On May 8th the FCC issued a Notice of Proposed Rulemaking (NPRM WT-95-57) concerning several changes in Part 97 of its Rules pertaining to the Amateur and Amateur Satellite Service.

ITEM 1: In July 1993 the National Conference of VE Examiner Coordinators (NCVEC) asked the FCC for a rule change that would provide for a volunteer examiner (VE) on-site manager at license examination sessions. (See RM-8301).

The NCVEC requested that the VE session manager be recognized in the rules as the person in charge of the session. Often there are examinees at a session who are seeking a class of license that requires examination in more than one element. (Where there are many examinees, the VE session manager increases examination efficiency by organizing as many VEs as necessary into "teams", each administering a particular element.

The ARRL commented that the current requirement, for three VEs to administer each examination ensures the integrity of the examination system. The ARRL also believes that placing the responsibility for the propriety of the examination on one person only dilutes the joint and several liability of all three VEs. (Note: ARRL/VEC activities are separate from ARRL activities, pursuant to § 97.521 of the Rules).

In its NPRM the FCC said: "We propose to amend the rules to recognize the role of the VE

session manager as the person who plans, keeps records, organizes and supervises the activities of administering VEs at each session. In our 1993 Financial Inquiry, we solicited information from sixty VEs. The responses of the VEs indicate that many VEs have organized themselves into teams locally, and that a team tends to answer to the leader.

"The team leader is often the only VE who is reimbursed and maintains records. We also propose that each examination element continue to be administered by at least three VEs.

"The presence of at least three VEs will provide the VEC with first-hand observers who can monitor the performance of the VE session manager and the other VEs. This will preserve the cross-checking favored by the ARRL, while recognizing the role of the VE session manager as requested by NCVEC."

Proposed changes in the Rules are detailed in the June 1 issue of W5YI Reports.

ITEM 2: An ARRL Petition (RM-8418) argued that former license holders whose interest is rekindled should be permitted to re-enter the amateur service without examination.

The FCC said: "We believe that the ARRL's position has merit. Former license holders previously passed examinations demonstrating that they qualified for the class of operator license held. Further, this proposal would relieve the VEs from the burden of preparing and administering examinations for former license holders."

The FCC proposed to authorize administering VEs to give examination credit for any examination that the applicant previously passed in obtaining the former license.

The Commission also asked for comments concerning the criteria that should be used to allow any other qualified persons similarly situated (such as former and current holders of other types of

*Continued next page*



operator licenses issued by the Commission, other U.S. government agencies, and foreign governments) to obtain examination credit, without examination, for amateur operator licenses.

To implement this decision, the Commission proposes to add a new paragraph to § 97.505, as follows:

“(a)(10). An expired FCC-issued amateur operator license. The least elements required for the license formerly held. No examination credit will be given if the operator license was suspended for the remainder of the license term. If the operator license was surrendered to avoid enforcement proceedings, or if the operator license expired following revocation of the associated station license. Examination credit, however, will be given if the suspension period of the operator license was subsequently modified to denote a lesser time period.”

ITEM 3: The ARRL petitioned the Commission (RM-8462) to increase from two to four the minimum number of members of a club applying for a club station license. The FCC agreed, saying “we believe there is merit to ARRL’s suggestion. Requiring four members, rather than two, would assist in ensuring that radio clubs are bona fide organizations. Accordingly, we propose to increase the eligibility requirement to four persons for a club station license.”

Appropriate revisions are proposed to § 97.5(b)(2) of the Rules.

ITEM 4: Special event vanity call system. When the Commission proposed adoption of rules for a vanity call sign system they indicated that they would be setting aside one-by-one call signs for special events. (There are 780 such call signs). The ARRL had requested that such call signs be reserved for stations operating in conjunction with short-term events of national significance.

In response, the Commission said stations wishing to obtain a special event call sign would be required to indicate the nature of the event at least 120 days in advance, and certify that it is of

special significance to the amateur service community. In addition, the licensee would submit a list of one-by-one call signs, in the order of preference.

This list could be included in a letter or be on a form prepared by the applicant or supplied by an outside source. Unlike ten year term vanity call signs which are scheduled to cost \$70, special event vanity call signs are proposed to be free. The first assignable call sign on the list would be stamped “granted” and a copy of the list would be returned to the person making the request.

The special event vanity call sign could be used for a period not to exceed that of the special event, or 15 days, whichever is less. The FCC asked that the amateur community comment of this proposed special event vanity call sign system.

The NPRM contains proposed language for revision of §97.3 (Note: Changes in the Rules to implement the vanity call sign system are in abeyance until the several petitions for reconsideration are disposed of.)

ITEM 5: Station identification. The FCC has received several informal requests for clarification of §97.119(c) of its Rules, concerning station identification. Subparagraph (c) provides that “An indicator may be included with the call sign. It must be separated from the call sign by the slant mark (“/”) or by any suitable word that denotes the slant mark. If the indicator is self-assigned, it must be included after the call sign and must not conflict with any other indicator specified by the FCC Rules or with any prefix assigned to another country.”

The FCC said it is getting requests to include a self-assigned indicator before rather than after the assigned call sign as provided in the current rule. For example, the licensee of amateur station W1AA in Boston, MA decides to operate the station while vacationing in the U.S. Virgin Islands. In order to direct more attention to the station, the licensee may include a self-assigned indicator such as /KP2, in the station identification announcement.

*Continued next page*



The FCC said: "We propose to permit also the station announcement KP2/W1AA and KP2/W1AA/KP2. We believe that allowing indicators to be included before, after or both before and after, the assigned call sign will provide the amateur service community better flexibility when making the station identification announcement. We propose, therefore, to amend the rule accordingly. The NPRM contains proposed revised language for §97.119(c).

The Commission requests comments on all of these items, on or before July 14, 1995, and reply comments by August 14, 1995. To file formally in this proceeding, you must file an original and four copies of all comments and reply comments. (Informal comments require an original and one copy). If you want each Commissioner to receive a personal copy of your comments, you must file an original and nine copies. Send your comments to Office of the Secretary, Federal Communications Commission, 1919 M Street, N.W., Washington DC, 20554.

### **SCHEDULE UPDATE FOR VANITY CALL SIGN APPLICATIONS**

At the deadline for this column FCC Form 610-V was not yet available. When it is, a W1AW bulletin will carry the announcement. Requests for the Form may be made now, to the FCC Forms Distribution Center (800-418-3676 or 202-418-3676), or by sending an SASE to the ARRL-VEC (write "Form 610-V request" on the outer envelope). Applications for amateur vanity call signs will not be accepted until some time when the forms are available. The Commission will make a public announcement of the date of opening of the first "gate" for applications.

### **THE COMMUNICATIONS ACT**

Want your own copy of the Act? It is available along with other pertinent communications law from the Government Printing Office, Washington DC 20402. Cost of the 516-page book is \$19.00. The GPO's Document Sales Office accepts credit card orders at 202-512-1800. Ask for

item No. 052-070-06992-9

### **FCC ON-LINE**

Most announcements (Public Notices, news releases, speeches, Daily Digest) and FCC actions (NPRMs, Orders, etc.) are available on the Internet. You can use any of these Internet tools:

FTP: [ftp.fcc.gov](ftp://ftp.fcc.gov)

Log on as 'anonymous' and use your e-mail address as the password. Publications are in the /pub directory. Identify files by downloading the index.

Gopher: [gopher.fcc.gov](gopher://gopher.fcc.gov)

or use any gopher to get to "all the gophers in the world", then "U.S.", then "D.C.", then "FCC".

World Wide Web: <http://www.fcc.gov>

### **NEW FCC HANDOUT GIVES OVERVIEW OF AMATEUR RADIO**

The FCC's Wireless Telecommunications Bureau has produced a new "fact sheet" on its Amateur Radio Service (PR-5000, Number 210). A lot of information is packed into two pages. A few tidbits:

"These services present an opportunity for self-training, intercommunication, and technical investigations.

"Twenty-seven small frequency bands are allocated to this service internationally.

"Some 1300 digital, analog, pulse and spread-spectrum types may be transmitted.

"Millions of amateur operators in all areas of the world communicate with each other directly or through ad hoc relay systems and amateur satellites.

*Continued next page*



"All frequencies are shared. No frequency is assigned for the exclusive use of any amateur station.

"Let's Say Goodbye to the FCC"  
Washington Post, May 16;

"The FCC equipment authorization program does not generally apply to amateur station apparatus.

"Think Tank Plan Would Replace FCC"  
Washington Post, early May

"The FCC rules are designed to promote the amateur service in the United States to provide emergency communications, advance radio technology, improve operator skills, expand the number of trained operators, technicians, and electronic experts, and enhance international goodwill."

"The FCC could have a going out of business sale"  
Forbes magazine, May 8th.

### WHO'S ON FIRST?

This punch line from an old Abbott and Costello routine could be used to describe potential changes in the regulatory regime under which we amateurs -and other spectrum users — live. Consider these recent news headlines and items, which we quote without comment:

A Forbes editorial says "... the best way to manage the airwaves is to sell them off in orderly parcels and then let the market decide how best to use them". And if spectrum were leased instead of sold, it would generate \$10 to \$20 billion annually in revenue for the federal coffers. The lead paragraph in a Washington Post article on May 31 says: "Federal Communications Commission Chairman Reed E. Hundt yesterday condemned a conservative think tank's plan to abolish his agency, saying the FCC still has a role in 'protecting the public interest' as monopoly telephone and cable television markets move toward competition."

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# American Radio Relay League Report

By John Swafford,  
W4HU

*The ARRL Report provides a brief summary of information published in the ARRL Letter and other reports. The LETTER provides timely news of interest to active Radio Amateurs. Any League member may subscribe to the ARRL LETTER.*

## Members Rally to Back W1AW

The deadline for comments on a petition for rule making to the FCC that would prohibit all one-way transmissions (below 30 MHz), such as code practice and information bulletins from W1AW, was May 4, 1995.

The petition, RM-8626, was filed by Frederick O. Maia, W5YI, in March. The ARRL urged the FCC "in the strongest possible terms" to deny or dismiss the petition without further consideration.

The ARRL said that Maia's arguments were overstated and inflammatory, in his use of words such as "chaos" and "crisis proportions," to describe what he sees as on-the-air disagreements among amateurs related to one-way transmissions.

The League cited W1AW's 65 years of free service to amateurs; other countries whose amateur societies also conduct informational bulletins on the air; the absence of any allegations that W1AW creates any significant interference to ongoing amateur communication; and the value of W1AW's bulletins in alerting amateurs to emergency situations.

## Not "Broadcasting"

The ARRL also said that since W1AW bulletins are not intended for the general public, they hence are not "broadcasting," according to definitions in the Communications Act, the ITU Radio Regulations, and the FCC's own Amateur Service Rules. They are, rather, amateur communication that has no more potential for undue interference than two-way communication.

"Maia, in the League's view, vastly overstates the level of concern about abuses of the Commission's existing rules governing one-way transmissions in the Amateur Service. The definition of 'information bulletins' is not at all as broad a category of information as Maia suggests. An information bulletin is defined as "A message directed to amateur operators consisting solely of subject matter of direct interest to the amateur service." Information, therefore, which is related to other radio services is not permitted. Broadcast-type programming is specifically prohibited, because such programming, by definition, (1) is not directed to amateur operators, but to the general public; and (2) does not contain information solely of subject matter of direct interest to amateur radio operators."

The League said that "any on-air anger perceived by Maia "ought to be the subject of FCC enforcement action, not rules changes, saying such situations were the direct result of the Commission allowing abuses to continue for months and years rather than timely addressing them in the context of the existing rules."

The ARRL noted that Maia operates a business that includes the dissemination of a subscription newsletter containing, among other things, articles of interest to the Amateur Radio Service. Maia also, the League said in its comments, sells Amateur Radio license exam preparation materials, including Morse code tapes, for use by both by prospective licensees as well as licensed amateurs interested in upgrading their license class.

*Continued next page*



"Elimination of all high-frequency bulletins of direct interest to the Amateur Service, and the prohibition of international Morse code practice on amateur frequencies below 30 MHz, would be distinctly beneficial to [Maia] from a pecuniary standpoint, as it would eliminate free alternatives to products offered for retail sale by [him]." the League said.

"While it is not suggested that the petitioner filed his petition for purely pecuniary benefit to himself, it does explain the overstated nature of the issue identified by Maia, and the lack of any identifiable problem that cannot be addressed the current regulations as they are stated."

The ARRL's comments also said that the FCC itself relies on W1AW information bulletins to advise amateurs of communication emergencies "requiring special cooperation in the use of the shared amateur frequencies. Most recently, these bulletins were used to advise amateurs to avoid certain frequencies that, according to the Commission's Dallas field office, were required to support the rescue effort following the Oklahoma City terrorist bombing. The declaration of a voluntary communications emergency was disseminated as quickly as it was solely because of W1AW," the League said.

### **Schedules Published**

The ARRL pointed out that W1AW bulletins and code practice schedules are regularly published in QST and elsewhere, that W1AW frequencies are fixed, and that warning messages are transmitted before code practice begins, to avoid undue interference to other amateur stations.

"Because of warning notices in advance of code practice; the extremely limited duration of the transmission of the voice bulletins; and because of the well-known availability of the service and the widespread publications of the schedule, W1AW has not ever been alleged to create any significant interference to ongoing communications in the admittedly crowded HF bands," the ARRL said.

The League said that W1AW code practice remains a primary source for both licensed amateurs and prospective licensees to improve their skills, one of the basic reasons for the Amateur Service.

The League said that code practice is specifically permitted as a one-way transmission in Sec. 97.111(b)(5); Transmissions necessary to assisting persons learning, or improving proficiency in the international Morse code. "Maia does not suggest that there are any abuses of the code practice authority contained in the Commission's rules, but simply asserts, without any support at all, that the code practice has 'outlived its usefulness,' the League said.

The ARRL also said that W1AW code practice as a free alternative to Maia's retail sale of code practice products "is sufficient rebuttal to the allegation that the code practice has 'outlived its usefulness'.

The ARRL said that Maia's petition mischaracterizes Art. 32 of the Radio Regulations, in his argument that the ITU envisions only two-way communication in the Amateur Service.

"Furthermore, to adopt rules which would cause the nightly Morse code practice from W1AW to be canceled, would be contrary to the posture adopted by the United States in its preparation for the World Radio Conference in 1995." The ARRL pointed out that the US has "affirmed its continued support" of International Telecommunication Union Radio Regulation 2735, which requires that an applicant for an amateur license demonstrate ability to send correctly by hand and receive correctly by ear Morse code transmissions. The W1AW code practice transmissions thus are in support of that ITU Radio Regulation.

"For the United States, on the one hand, to support the continuation of RR 2735, and on the other hand to adopt rules which would prohibit on-the-air code practice transmissions would be contradictory," the League said.

*Continued next page*



"While the Amateur Service does not require a lot of enforcement assistance from the Commission, it does require some," the League said. "Any on-air anger perceived by Maia in specific cases is the direct result of the Commission allowing abuses to continue for months and years, rather than timely addressing them in the context of the existing rules. The Amateur Service needs enforcement assistance in these few cases, and it needs it right now," the ARRL said.

## Amateurs Wrap UP Oklahoma City Work

The primary Amateur Radio operation in support of recovery efforts in the bombing of the federal building in Oklahoma City ended at 4 PM on Tuesday May 2.

Amateurs had maintained a network continuously since 9:15 AM on April 19, with more than 300 operators from Oklahoma, Kansas, and Texas providing communication through the Oklahoma City Autopatch Association repeater.

Amateur operation then shifted from the blast site to coordinating Salvation Army activities, on a simplex frequency. As of 4:00 PM on May 4, Amateur Radio operators in Oklahoma City had conducted emergency communication for more than 360 hours.

ARRL Oklahoma Section Public Information Coordinator Tom Webb, WA9AFM, said that those involved in the post-bombing communication effort credited numerous disaster drills, established

Amateur Radio networks, emphasis on proper on-air procedures, and experience in weather spotting nets for the success of this operation.

Later this month, Oklahoma City amateurs will meet to discuss their activities and for a debriefing.

## Schedule Update for Call Sign Applications

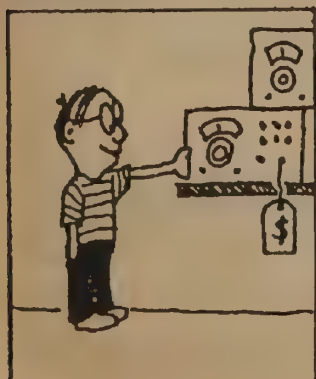
At press time, FCC Form 610-V, the form necessary for applying for a vanity call sign, was not yet available. When it is, a W1AW bulletin will carry the announcement. Requests for the form may be made now, to the FCC Forms Distribution Center (800-418-3676 or 202-418-3676), or by sending an SASE to the ARRL-VEC (write "Form 610-V request" on the outer envelope).

Applications for amateur vanity call signs will not be accepted until some time after the forms are available from the FCC. The Commission will make a public announcement of the date of opening of the first "gate" for vanity call sign applications.

## Briefs

Effective July 1, 1995, a new Advanced class question pool takes effect, and VE exams beginning on that date will use questions from the new pool. The new 4th Edition of the ARRL Advanced Class License Manual is now available and covers these new questions.

## ELMER



By Rich Regent, K9GDF





## Elmer's Corner

By Paul E. Wilkins,  
AB4CY

### REGULATING VOLTAGES

Voltage sources (batteries, power supplies, etc.) don't always supply the voltage you want. The first voltage "regulators" were resistive voltage dividers where the excess voltage was absorbed in producing heat in the resistors. These are fine as long as the current load doesn't change because if it does then so does the voltage drop and the output voltage.

The first true voltage regulators were the gas tubes. A low pressure gas such as Argon or Neon will ionize at a fairly constant voltage and beyond that point act as a "shunt" for excess voltage. Because they were invented in the vacuum tube age, the voltages at which they ionized were designed to stabilize plate and screen voltages. The regulator tubes were known as VR75, VR105, VR155 indicating the function and the ionizing voltage. When miniature tubes appeared so did the OA1, OA2, and the OB and OC series gas regulator tubes. When operating there was a glow from the ionized gas visible through the tube envelope. These tubes could be placed in series in any combination to obtain regulation of higher voltage levels.

Electronic voltage regulation was developed with the "series" and "shunt" regulator circuits. The series circuit inserted a tube in series with current flow and controlled the current flow by sampling the output voltage to provide a feedback control voltage to the series tube to reduce or increase the output potential. This was like an automatic gain control to keep the output voltage constant regardless of the load. The shunt circuit operated as a variable load resistor to shunt excess voltage to

ground. Shunt circuits were used only for special applications because they always dissipated a fair amount of heat.

With the advent of semiconductors and particularly IC's the whole circuit could be fabricated on a chip. Because these were designed for semiconductor circuits, the regulated voltage levels were designed to be low. The common voltage levels are 5, 12, and 15. The LM723 is an adjustable (2v to 37v) voltage regulator chip. Regulators are available for both positive and negative voltage sources. These regulator chips generally have to be mounted on a heat sink to limit the temperature of the components. When these chips are isolated from electrical ground, they are mounted on very thin mica insulators and dabbed with a heat sink compound which is a silicone grease loaded with a high density heat conducting dielectric material. It may look a little messy, but don't try to clean it up, it's supposed to be there.

For low power applications voltage regulation is obtained by Zener diodes which act as shunt regulators. A specially doped semiconductor diode is operated in a reverse biased mode to provide reverse breakdown (current conduction) at a precise potential which depends on the doping material and quantity. High quality Zener diodes provide voltage stabilities of several parts per million over a wide temperature range. In fact a good Zener regulated source is much more stable than a battery. Zeners are available in voltage ranges of one to several hundred volts with power ratings from a fraction of a watt to 50 watts or more. The high power ones need a heat sink to help dissipate the power shunted through the diode. They act like the old gaseous regulators and can be stacked to obtain a wide variety of regulated voltage levels. By the way, Zener is the name of the fellow who first identified and studied the effect.

Some sophisticated regulator circuits provide a "fold-back" feature which automatically reduces the power dissipation to prevent the circuit from self-destructing on overload. This is the same fea-

*Continued on page 34*





## Traffic Fun

By Geri Sweeny,  
N4GHI

Fathers are good  
Fathers are fine  
Passing traffic  
A good way to unwind.

Send a Father's Day and/or 4th of July message to someone. How? On the local level, the NVTN is accessible from anywhere in the metropolitan area.

On the section level, dial in the Virginia SideBand Net on 3947 at 6 pm and mention you have traffic to send. Or, in the Maryland/DC Section, try the Maryland Emergency Phone Net on 3920 at 6 pm.

If you aren't sure how to do it, just tell the NCS you need some help. They want to hear from you and will be happy to assist. All traffic leaving the Section should be listed as through traffic. It will be given to the liaison going to the next Region Net, where traffic is sorted and routed toward its next destination.

A message going to California from a Virginia Net will be routed through: 4th Region Net, Eastern Area Net, Pacific Area Net (via a transcontinental Corps one-on-one sked, 6th Region, et voila delivered! All of that can happen in 24 hours.

## PREAMBLE

The preamble of a message is the top line which gives traffic handlers information they need for delivery and/or to service it back to you if needed. It starts with a number assigned by you. If your message can not be delivered, you should receive a message back saying your message number (whatever) was not delivered (ARL SIXTY SEVEN) due to whatever reason.

The precedence is generally R for routine, meaning it's not an emergency or of time value. Your call, city, and state, allows the delivering station to mention they have a message from (signature) in (location). It also facilitates servicing a message back to you as needed.

The check number allows all the stations who copy this message to be sure they got each word in the text. It insures accuracy. Folks are encouraged to copy 5 words to a line in the text. A quick scan of lines can verify if the check number is correct.

Finally, the date allows everyone to know when the message was sent, and whether the message is still relevant.

You need not know the preamble formatting when you arrive at a net. Whoever takes your message can do it for you. To send a message you only need to check into a net with a name, address, phone number, message and signature.

Enjoy the fun of sending and/or receiving a message. Give others a chance to pass a message for you. Join the net of your choice.

N4GHI, STM VA

# The Foundation For Amateur Radio, Inc.



Washington, DC





## FAR Meeting Minutes May 10th Alexandria, VA

FAR President, Chuck Sommer, called the meeting to order at 8:00 p.m. Al Brown, Executive Vice-President took the attendance by roll call. There were twenty trustees present.

It was moved by John Klim and seconded by Hugh Katz that the minutes be approved as mailed out to the trustees. It was so voted by the trustees present.

The treasurer's report was approved as read with *AutoCall* being in the red this month after the bills were paid. Subscriptions presented this night by John Swafford brought it back into a positive balance.

John Swafford also stated that there were 1705 copies of *AutoCall* and 95 notices for renewal sent out this month. The magazine is okay and on schedule. From henceforth, complaints and inquiries [and compliments - Ed.] concerning *AutoCall* should go to Tony Young as Vice-President of *AutoCall*. These will be forwarded to John Queen, editor. Submissions of articles should go directly to John Queen, however. These can be submitted by mail or can be submitted online to JohnQueen@AOL.Com. The MRC BBS is down, however other BBS's are still available for uploading submissions including, among others, BWIBBS on 145.050 MHz. The landline number is (410) 312-2219. Send a personal message to KAØSEY. (The command is SP KAØSEY.)

[Editor's Note: If you are on another BBS, send a personal message to KAØSEY @

WB3V.MD.USA.NA. (The command is: SP KAØSEY @ WB3V.MD.USA.NA) Include your club's submission to *AutoCall* in the TEXT field.]

Tony Young has undergone eye surgery so hold down *AutoCall* complaints and comments for a couple of weeks. We wish Tony a complete and successful recovery.

Hugh Turnbull reported on ARRL happenings. He said that since March 23, all clubs can get a club station license from the FCC and there is a two week turnaround on these. Whenever the Public Notice comes out, the window of opportunity for vanity calls will become available. OMB has approved the form and now it is just a matter of time until the public notice comes out from the FCC. Two forms will need to be submitted, a 610V and a 1007V. The first will be the application form to the FCC, the second will be the form to submit the \$70.00 for the vanity call request. No one should use the 610V until the Public Announcement comes out by the FCC. There will be four windows of opportunity. The first is those people who have prior claim to a particular call. The second is Extra class licenses. The third is Advance class licenses. The fourth is everyone else. These windows will probably be sixty to ninety days, long enough to take everyone into consideration. The Atlantic Division Convention is in Rochester, New York in two weeks. The Hagerstown Hamfest (Antietam Club) is on May 14 and the MD FM Club's hamfest is at the Howard County Fairgrounds on May 28 and Old VA Hams is in Manassas on June 4.

Hugh Turnbull reported on the scholarship committee. There are 475 requests for applications. The cutoff date for requests was May 1. Hugh has all the money for the scholarships in hand. He is asking that clubs which have spon-

*Continued next page*



sored scholarships send him a flyer about their club that he can enclose with the scholarship award so that the recipient will know a bit about the club that has sponsored the award. The Radio Club of America has already done so. He is predicting that awards will be made toward the end of July.

The computer has been purchased and has gone a bit over budget but the overage will come out of scholarship fund set aside money. The scholarship committee is looking for an overhead projector. If anyone knows of one available, please contact Hugh or Chuck.

John reported on survivor's assistance. He has had only two requests. He has been working Mrs. Foreman with her to sell the TR-4 and an LARB. He is also working with Mrs. Cockrell. Tony sold over \$400 at the Kent Island hamfest for survivor's assistance.

Al Brown reported that he is still in need of assistance for FARFEST. He would like each club to take a committee for FARFEST in order to make it a success. The next meeting is May 24, 1995 at the EOC on Route 214 in Prince George's County at 7:30 p.m.

## OLD BUSINESS

Concerning *Autocall*, the Foundation used to have a "Ham of the Month" award published in *AutoCall*. We would like to reinstitute this award and Tony Young, WA3YLO, will be taking nominations.

As mentioned earlier, we ran over budget on the computer for the scholarship committee. The scholarship fund will replace the overage of about \$700 out of funds set aside for purposes like this.

## NEW BUSINESS

New trustees were voted in for Leisure World, William Hickey, Henry Carthor; for the Mid Atlantic DX Repeater Assn., Mike Vaia and Roy Bates; for Frederick ARC, Wayne Wisner and Mildred Mumford; for Sterling Park, Ray Mullins;

for Loudoun ARC, Larry Mulinski and Dale Kabinis; for Fauquier ARC, Don Maziers and Dale Sparks; for Waldorf Repeater Support Group, Chris O'Brien; and for Culpepper, Rick Hall and Glen Martin. Welcome to FAR!

Concerning the scholarship program, it was reported that Al Massey wrote an article in *Auto Call* concerning the possibility of awarding scholarships to part time students who have gone back to school to get their degree. This was discussed and it was agreed that something needed to be put into writing as a guideline for this possibility. If a club would like an award to be made this way, it needs to write a guideline to let the Scholarship Committee know. Further discussion will commence after possible written guidelines are received concerning this issue.

A net schedule was handed out for all FAR club nets. There were also some additions such as Bill Dobson telling us about the Baltimore Traffic Net every evening at 6:30 p.m. on the 147.47 repeater; Frederick County ARES on Sunday at 7:30 p.m. on 147.06 by Wayne Wisner; MDD net on 3.643 every nite at 7 p.m. and 10 p.m. and the Culpepper ARA net on Tuesday at 8 p.m. on 147.12 by Glen Martin.

Rosie Falcon announced that a Hurricane Drill will be held early in June. State and county governments will be activating mid-week but the Red Cross will be activating on Saturday, June 3 between 9:00 AM and 3:00 PM.

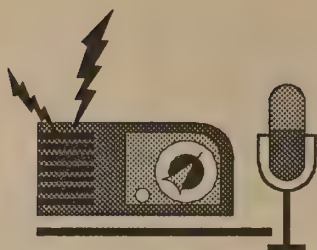
The August meeting of FAR will be a picnic at 7 p.m. instead of 8 p.m. at a location in Maryland which will be announced next month.

John Klim moved that the meeting be adjourned at 8:57 p.m., Hugh Katz seconded. The meeting was adjourned.

Respectfully submitted,

Vikki Gigante, KA3PVS, Secretary





## DX DX DX

By John Kanode,  
N4MM

### ARRL CLARIFICATION OF SCARBOROUGH REEF SITUATION BEFORE DXAC

In the last several months there has been a lot of misinformation in regards to Scarborough Reef and the recently adopted minimum-size criterion for the DXCC rules.

This issue was debated at the Dayton Hamvention, at the informal DXAC meeting, at the DX Forum and in the DX hospitality suites at Stouffers.

On May 3, 1995, ARRL Executive Vice President, Dave Sumner, K1ZZ sent the following letter to the DXAC.

"Judging from some of the comments I heard in Dayton over the weekend, it appears that some clarification is required as to when the DXCC minimum-size criterion took effect.

As you know, with minor editorial changes the ARRL Awards Committee acted favorably on the DX Advisory Committee's minimum-size recommendation. The Awards Committee's action was taken on April 19 and the public announcement was made on April 20. In the absence of a future effective date being specified at the time of adoption, the new criterion was effective on or after April 20, 1995, that being the earliest date on which DXCC participants could have been aware of its adoption.

However, the criterion does not apply retroactively. Present DXCC countries need not be reviewed to see if they conform to the new criterion, nor can it be applied to entities proposed

as DXCC countries before April 20, 1995 and now awaiting decision.

There appears to be some confusion in this regard. Scarborough Reef was proposed as a DXCC country long before the new criterion took effect. Bill Kenamer tells me that a complete application has been in hand since August 18, 1994. The rules in effect on that date must be applied to consideration of its eligibility. The moratorium that was announced on October 4, 1994 would not apply to applications that were already in hand as of that date.

I hope this clarification will be of some assistance to the DXAC as it considers Scarborough Reef and other matters now pending.

The DXAC has scheduled a vote on Scarborough Reef in late June. There have been two operations from Scarborough Reef. The first one will not be accepted for DXCC credits due to non-compliance of existing DXCC rules, the second operation which took place in early 1995 was in compliance and if the DXAC and Awards Committees approve this entity as a new one for DXCC, QSLs from the second operation will be acceptable for DXCC credits.

### UPCOMING DX CONTESTS

RAC Canada Day Contest	July 1
IARU HF World Championship	July 8-9
CQ WW VHF Contest	July 8-9
RSGB IOTA Contest	July 2-30

### UPCOMING DXPEDITIONS

Mount Athos SV/A	July 3-6
Saint Paul Island CY9	July 17-August 2

### APPROVED OPERATIONS

3DA/SP2JYX	8Q7DM	FJ/OZ75M
4U/KC0PA	9L1PG	J75A
4U/VE3UWC	9Q2L	VP5/K0P

*Continued next page*



4U9Q	9Q5TT	VP5PP
4U9U	9U/F5FHI	ZB2/N7RK
6Y5/DL2ECB	CN2GB	ZF2VW
701AAC21/W9GW	256YG	V4/Z56YG

## TIDBITS

The 1995, Fourth Annual New Orleans International DX Convention will be held at the Royal Sonesta Hotel on Bourbon Street, in the French Quarter on Friday, August 25, 1:00 to 5:30 PM and Saturday August 26, 8 AM to 10:30 PM. Admission is \$50 in advance and \$60 after August 7. for more detailed info and registration form, contact Wundy Wondergem, K5KR at 504-837-1485.

In May, a group of businessmen left Tokyo for North Korea. They were there on business but also they were promoting the Amateur Radio Service.

They were invited to the PDR of Korea by representatives of the DRPK ruling family. A complete Amateur Radio station was donated to an educational institute of their choice. During the demonstration of Amateur Radio, about 20 QSO's were made with stations in Japan and other Asian countries. It is hoped that others will be invited back later in the future for a bigger demonstration and operation.

The Navassa Island operation has been canceled due to transportation problems. They are hoping to reschedule it for this Fall or early in 1996.

Effective April 1, 1995, the new rate for outgoing QSLs via the ARRL Outgoing QSL Bureau is \$3.00 per pound. About 150 QSL cards equal one pound. Complete info on the ARRL QSL Bureau system is available at ARRL displays at all local hamfests.



## Amateur Radio Newsline

Compiled by  
John Queen  
KAØSEY

### LA Tower

California's Los Angeles County has a new and fairly liberal tower and antenna ordinance thanks to the mediation efforts by members of the local ham radio community. The new law permits the erection of a ground mounted 75 foot high retractable tower that can be nested to below thirty-five feet when not in use. Only a basic building permit is required. Prior to enactment of the new law, all ground mounted towers were limited to thirty-five feet maximum unless a variance costing over \$3000 in non-refundable filing fees was granted.

Also under the new ordinance, hams are permitted one vertical antenna exceeding thirty-five feet, and no permit is required for any antenna not exceeding the thirty-five foot height limit. What about those hams who want to put up fixed towers to the seventy-five foot level? Those hams can apply for a special Amateur Radio Antenna Permit which is actually a variance that carries a \$317 filing fee.

And we have saved the best part for last. Let's say you have a neighbor who does not like your tower and antenna. Well from now on, anyone wanting to challenge the installation of an approved Amateur Radio tower will have to pay for that privilege. As a part of the new ordinance, the County has instituted a \$280 planning review fee that must be paid by anyone posing a challenge to a ham radio tower installation. The county says that it took this action as a way of stopping what it calls frivolous objections to the granting of antenna installation variances to licensed radio amateurs.

Work on the new ordinance was spearheaded by The Tri-County Amateur Radio Association, the



Los Angeles Council of Amateur Radio Clubs, local ARRL officials and ARES disaster communications personnel.

### **ARRL Rebuffs W5YI Petition**

With the commentary period now closed, the ARRL is making known its resentment of an anti-bulletin station petition that would put W1AW off the air. The League says that the arguments in the petition filed by Texas publisher Fred Maia, W5YI to end one-way high frequency bulletin transmissions were overstated and inflammatory. This, in use of words such as "chaos" and "crisis proportions" to describe what Maia sees as on-the-air dissension among amateurs related to such one-way transmissions.

In its strongly worded filing to the FCC, the League cites W1AW's sixty-five years of free service to amateurs, the absence of any allegations that W1AW creates any significant interference to ongoing amateur communications and the value of W1AW's bulletins in alerting amateurs to disaster situations as the primary reasons for filing against the Maia rules change request.

The ARRL says that since W1AW bulletins are not intended for the general public, they are not broadcasting. This, according to definitions in the Communications Act, the ITU Radio Regulations, and the Amateur Service Rules. They are, says the League, amateur communication that has no more potential for undue interference than any normal two-way communication.

The League says that any on-air anger perceived by Maia ought to be the subject of FCC enforcement action, not rules changes. The national society says that these situations are the direct result of the Commission allowing abuses to continue for months and years rather than addressing them in the context of the existing rules.

The League notes that there are other countries whose amateur societies also conduct informational bulletins on the air, and, in its closing

arguments the ARRL urges the FCC to deny or dismiss RM-8626 without further consideration.

### **RENEWAL ON HOLD**

Word has reached Newsline that the FCC has placed the renewal application of a Pennsylvania ham on hold. This pending the outcome of a hearing to determine if he still holds the requisite qualifications to remain a licensed radio amateur.

It comes 6 months after his conviction on 4 counts of corruption of minors and an additional 4 counts of indecent assault.

The May 15th W5YI report says that the ham allegedly attracted his victims through common interest in amateur radio. Each victim, says the W5YI report, was assaulted while spending the night in the amateurs home to use the ham station.

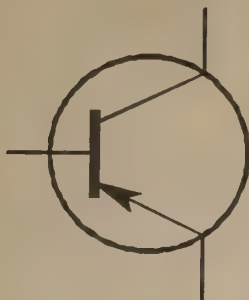
Last November a Pennsylvania court sentenced the ham to three consecutive terms of imprisonment for 3 to 6 months on each count. He was also ordered to pay \$20,000 in restitution to his victims, this to pay for their therapy.

In designating the license for hearing, the FCC says that it plans to determine if a conviction for corrupting and indecently assaulting minors attracted to a crime scene through amateur radio is relevant in evaluating the likelihood that a licesholder will comply with the commissions rules that govern the amateur radio service. If the decision goes as expected, that being against the radio amateur, it will reinforce a precedent that stood for years. A precedent that says the FCC can remove convicted criminals from the ranks of amateur radio.

### **Update on Condition of W4OYI**

From the ARRL word that President George Wilson, W4OYI, continues to recover from his February 11th stroke. George is now able to communicate quite well, and he thanks everyone for their good wishes.





# Amateur Radio Training Classes

John Forrest WZ4A  
6111 Burnett St., Alexandria, VA 22310  
(703)971-3905

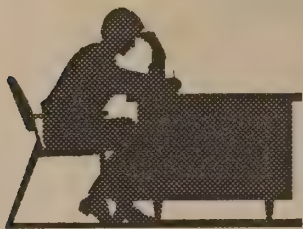
## Class Announcements

**NO-CODE TECHNICIAN/NOVICE CLASS:** The Mount Vernon ARC and the First Christian Church (Alexandria) Boy Scout Explorer Post will present an entry-level amateur radio training course leading to an FCC Novice and/or Technician license. Morse code instruction will be available. The class will be held in Alexandria beginning in September. There is no charge for the class; however, students will be required to provide their own study materials at a cost of approximately \$25. For info, contact John Forrest, WZ4A at (703) 971-3905 or Bill Schmitt, KD4CNS at (703)768-5709.

## Club Training Contacts

Alexandria RC	Rich Adamy KA4GFY	(703) 644-3920
Anne Arundel RC	Tony Young WA3YLO	(301) 262-1917
Arlington ARC	Fred Bardsley WD4DHW	(703) 533-0372
Antietam Rad Assn.	Robert Long KD3JK	(301) 824-5132
Baltimore RATS	Joe Chidester W3SHZ	(410) 602-0353
Baltimore ARC	Essex Community College	(410) 780-6854
Fauquier ARC	Neil Spokes AB4YK	(703) 364-3861
Frederick ARC	Steve Bauman W3FOA	(301) 662-4552
Herndon Rep't Gp	Michael Weber WB8RDN	(703) 450-2304
Laurel ARC	Pud Reaver W3DQI	(301) 498-6293
MADRAS	Larry Ziecheck N3GKZ	(301) 984-6113
MD Mobileers ARC	John Baugus N3JME	(301) 551-3161
Montgomery ARC	Rocky Jones KC4UXO	(301) 216-5210
Mt. Vernon ARC	John Forrest WZ4A	(703) 971-3905
NASA/Goddard ARC	Vikki Gigante KA3PVS	(301) 249-2609
Ole VA Hams ARC	Charles Dale WA4YGI	(703) 361-3091
Pentagon ARC	David Boyd K9MX	(703) 659-6241
St. Marys Co. ARC	Peter Butt WA3UMY	(301) 862-2214
Shenandoah Val ARC	Guy Black W4PSJ	(703) 722-4952
Southern MD ARC	Vic Curtis WA3YUV	(301) 888-1388
Southern Pax ARC	Dwayne Kincaid WD8OYG	(410) 586-2177
Stafford Adult Ed	Jerry Mullinix AC4HK	(703) 659-3905
Sterling Park ARC	Forrest Snyder N4UTY	(703) 430-4149
Tri-County ARC	John Creel WB3GXW	(703) 572-5124
Vienna Wireless	Paul Wilkins AB4CY	(703) 560-2779
Woodbridge Wireless	Cliff Deel KO4FM	(703) 491-0841





## Volunteer Examiner Cooperative

JOHN FORREST WZ4A  
6111 Burnett St.  
Alexandria, VA, 22310  
(703) 971-3905

\* Effective July 1, 1995, the Advanced Class written exam question pool (Element 4A) changed. Since the question pool has not been changed for many years, significant changes are anticipated. Be sure to use study materials appropriate for the current question pool.

\* The maximum exam fee has been raised by the FCC to \$5.90.

\* Copies of the complete (as of date) 1995 VEC Exam schedule from the *Auto Call* database are available. To obtain a copy, please send a large, self-addressed envelope with sufficient postage to cover 10 letter-size pages along with \$1.00 to cover copying costs to WZ4A at the above address.

## 1995 Schedule of Examinations

<b>July 2 (Sunday)</b>	<b>Landover, MD - D.C.M. ARC (ARRL VEC) Walk-In</b> Contact: Freddie Battle NG3G (202)546-9348 (Day) (301)773-2898 (Evening)
<b>July 8 (Saturday)</b>	<b>Alexandria, VA - Mt. Vernon ARC (Laurel VEC) Walk-In</b> Contact: Frank Mackey N4GUS (703)455-1510
	<b>Davidsonville, MD - Anne Arundel Radio Club (Laurel VEC) Walk-In</b> Contact: Bob Israel WC3I (301)262-5083
<b>July 15 (Saturday)</b>	<b>Laurel, MD - Laurel ARC (Laurel VEC)</b> Pre-Registration Desirable, Limited Walk-In Contact: John Creel WB3GXW (301)572-5124 after 6 PM
	<b>Smithsburg, MD - Mid-Atlantic DX &amp; Rptr Assn. (ARRL VEC)</b> Pre-Registration Requested Contact: J.M. Vaia WB8VBW (301)416-8447 Box 110



<b>July 15 (Saturday)</b>	<b>Washington, DC - GWU-DOS ARC (ARRL VEC)</b> Walk-in Contact: Hani Raad AA3EI (202) 223-3925
<b>July 21 (Friday)</b>	<b>Arlington, VA at the Pentagon - Pentagon ARC (ARRL VEC)</b> Pre-Registration Encouraged Contact: Jim Fox KE4EID (703)756-8994 (Work), (703)931-6523 (Eve.)
<b>July 25 (Tuesday)</b>	<b>Glen Burnie, MD - Maryland Mobileers ARC (Laurel VEC)</b> Pre-Registration Requested, Walk-In limited Contact: Jerry Gavin NU3D (410)761-1423
<b>July 30 (Sunday)</b>	<b>Hagerstown, MD - Antietam Radio Assn. (ARRL VEC)</b> Pre-registration Strongly Recommended - Limited Walk-In Contact: Page Pyne WA3EOP (301)714-0688 (Day) Bob Long KD3JK (201)824-5132 (Evening)
<b>August 5 (Saturday)</b>	<b>Sterling, VA - Herndon Repeater Group (ARRL VEC) Walk-in</b> Contact: Mike Weber WB8RDN (703) 450-2304
<b>August 6 (Sunday)</b>	<b>Berryville, VA - Shenandoah Vally ARC (Hamfest)</b> (Mount. ARC VEC) Pre-Registration Desirable Contact: Leo Patterson KQ8E (304)289-3576 Gay Rembold W3DFW (301)724-0674
<b>August 12 (Saturday)</b>	<b>Alexandria, VA - Mt. Vernon ARC (Laurel VEC) Walk-In</b> Contact: Frank Mackey N4GUS (703) 455-1510
	<b>Cumberland, MD - Mountain ARC (Mount. ARC VEC) Walk-In</b> Contact: Leo Patterson NQ8E (304) 289-3576 Gay Rembold W3DFW (301) 724-0674
	<b>Davidsonville, MD - Anne Arundel Radio Club (Laurel VEC) Walk-In</b> Contact: Bob Israel WC3I (301) 262-5083



<b>August 17 (Thursday)</b>	<b>Towson, MD - Baltimore ARC (ARRL VEC) Walk-In</b> Contact: Bob Kennick WB3HNV (410) 426-8255 Mailbox #3468
<b>August 19 (Saturday)</b>	<b>Laurel, MD - Laurel ARC (Laurel VEC)</b> Pre-registration desirable, limited walk-in Contact: John Creel WB3GXW (301) 572-5124 after 6 PM
	<b>Smithsburg, MD - Mid-Atlantic DX &amp; Repeater Association (ARRL VEC)</b> Pre-registration requested Contact: J.M. Vaia WB8VBW (301) 416-8447 Box 110
<b>August 26 (Saturday)</b>	<b>Spotsylvania, VA - Fredericksburg VA VE Team (ARRL VEC) Walk-In</b> Contact: Kelly Shaw AC4MB (703)891-5581 Carolyn Cavanagh AC4SK (703)373-7076
<b>August 29 (Tuesday)</b>	<b>Annapolis, MD - Maryland Mobileers ARC (Laurel VEC)</b> Pre-Registration Requested, Walk-In limited Contact: Lois Turner KA3VVQ (410)647-4178
<b>September 3 (Sunday)</b>	<b>Elkins, WV- Mount. ARC VEC Walk-In</b> Contact: Walter Corley KF8SX (304)637-0506
<b>September 9 (Saturday)</b>	<b>Alexandria, VA - Mt. Vernon ARC (Laurel VEC) Walk-In</b> Contact: Frank Mackey N4GUS (703)455-1510
	<b>Davidsonville, MD - Anne Arundel Radio Club (Laurel VEC) Walk-In</b> Contact: Bob Israel WC3I (301)262-5083
	<b>Culpeper, VA - (ARRL VEC) Pre-Registration Preferred</b> Contact: Bill Brown AC4KP (703)547-3089 Gary W0QDP (703)854-6187

***Don't forget to bring your license when upgrading!!***





# Volunteer Examiner Cooperative

## EXAM FEES:

- \* Check for appropriate exam fee. Fees and modes of payment for individual VECs and exam teams may vary.
- \* ARRL VEC exams cost \$5.90
- \* Laurel VEC exams are free
- \* Mountain VEC exams are free
- \* W5YI VEC exams cost \$5.90

## BRING TO EXAM:

- \* Picture identification
- \* Completed FCC form 610 (most VE teams will supply at exam)
- \* Original and a copy of current FCC amateur radio license
- \* Originals and copies of all active certificates of successful completion of prior exams
- \* Exam fee (check or cash depending on VE team)

## "GRANDFATHER" CREDIT FOR ELEMENT 3B (GENERAL WRITTEN):

- \* If you presently hold a Technician class license which was first issued prior to March 21, 1987, you may be grandfathered for Element 3B (General class written exam) by presenting the original and a copy of the license dated prior to March 21, 1987 to the VE team. It is your responsibility to prove that you are entitled to grandfathering. Do not lose your original license!

## RULES FOR SUBMISSIONS TO THE FAR VOLUNTEER EXAMINER COOPERATIVE:

1. All submissions must be in writing
2. Date and day of week must be specified for each exam date
3. Point of contact and phone number must be specified
4. Sponsor and location must be specified
5. VEC must be specified
6. Exam dates up to 12 months in advance will be accepted
7. Deadline for submission is 25th of the 2nd month prior to publication date (e.g., Sept. 25 for November issue)



# MARYLAND RADIO CENTER

# MRC

## *Authorized Dealer for:*

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Yes... We have a full service Shop....

Check-out our Technical Library!

**Please Note: Ham Exams are no longer held at MRC.**

**Open Mon. - Fri. 10AM - 5PM**

**Saturday 10AM - 3PM**

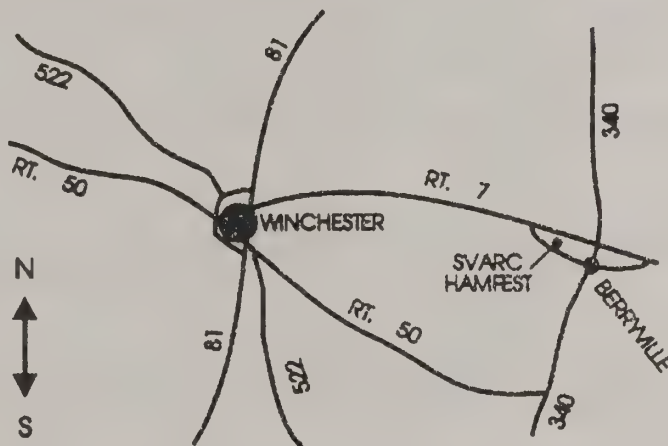


# The Shenandoah Valley Amateur Radio Club Presents The **45th Annual Winchester Hamfest and Computer Show**

(Electronics Flea Market Open To The General Public)

## **SUNDAY, AUGUST 6th, 1995**

AT THE CLARKE COUNTY RURITAN FAIRGROUNDS IN BERRYVILLE, VIRGINIA



ARRL APPROVED  
HAMFEST

- GATE OPENS AT 6:00 AM.
- GENERAL ADMISSION \$5.00 (children under 16 free)
- TAIL-GATERS ADDITIONAL \$7.00 PER SPACE
- COMMERCIAL & INDOOR TABLES BY RESERVATION
- COUNTRY HAM & EGG BREAKFAST
- CONCESSIONS & SNACK BAR AVAILABLE
- RURITAN'S FAMOUS CHICKEN & BEEF BARBECUE
- VE EXAMS (SAME DAY)\*
- TALK-IN 146.22-82 & 52 SIMPLEX, W4RKC
- FREE BINGO WITH PRIZES
- GRAND PRIZES AND HOURLY DRAWINGS
- COUNTY PARK WITH POOL, PICNIC AREA,  
AND PLAYGROUND OPPOSITE HAMFEST SITE

### **Remember!**

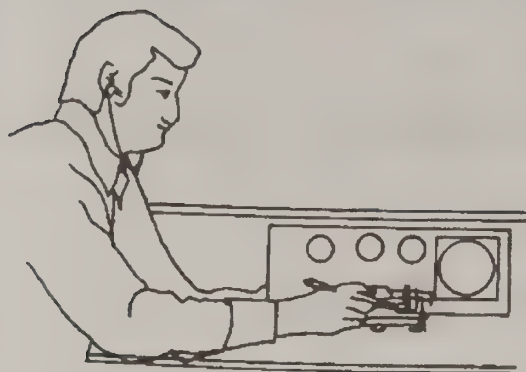
Always the first  
Sunday in August.

by Rick Choy  
N3HXT  
Hamfest Chairman

\*VE Exams 8 AM by the  
**Mountain Amateur Radio Club**  
At Cooley School, across from  
Hamfest - limited walkins  
All classes of licenses  
Pre-registration requested

For information and vendor registration and pre-reservations, call Irv Barb KD4BHV (703) 955-1745, Rt 3 Box 5385, Berryville, VA 22611  
The SVARC is a non-profit, non-commercial special service organization dedicated to the furtherment of Amateur Radio communications





# Local Area Net Schedules

Compiled by  
Chuck Sommer, N4OSD,  
Al Brown, WA3FYZ, and  
John Queen KAØSEY

(All frequencies are MHz. All times are  
local except as noted.)

## Sunday

1500 UTC	14.316	State Dept Foreign Service Net
1530 UTC	21.416	State Dept Foreign Service Net
1600 UTC	28.416	State Dept Foreign Service Net
9:00 A.M.	50.400	Metropolitan Communications Network
7:30 P.M.	146.070	Frederick Co ARES
8:00 P.M.	145.210	DC Amateur Radio Emergency Services
	146.805	AA Co ARES
	144.970	Metrovision Amateur TV Club (ATV net)
	147.360	Metro Comm net
8:30 P.M.	147.000	Nat'l Capitol DX Association
9:00 P.M.	146.835	AMSAT
	146.910	Nat'l Capitol ARES

## Monday

7:30 P.M.	146.640	St. Mary's ARES
8:00 P.M.	147.240	Woodbridge Wireless
9:00 P.M.	145.310	Herndon ARC

## Tuesday

7:00 P.M.	146.940	Antietam Radio Association
7:30 P.M.	147.135	Youth Net
	147.120	Culpepper ARA
	147.060	Mid-Atlantic DX and Repeater Assc.
	146.640	St. Mary's Bottom County net
	144.870	Arlington ARC (except meeting nights)
8:00 P.M.	147.150	Southern Maryland ARC
8:30 P.M.	28.410	Anne Arundel Radio Club
	146.670	Baltimore ARC
	147.135	Columbia ARA
9:00 P.M.	146.655	Mt. Vernon ARC (moves to 28.408 MHz)
9:30 P.M.	145.230	Central Maryland ARC



## Wednesday

7:00 P.M.	447.975	Antietam Radio Association
8:00 P.M.	1.865	Southern Maryland ARC
	146.790	Northern VA FM Association
	144.970	Metrovision Amateur TV Club
	444.400	Anne Arundel Radio Club
8:30 P.M.	147.225	Laurel ARC (1st,3rd & 5th)
9:00 P.M.	147.165	Fauquier Amateur Radio Association

## Thursday

7:00 P.M.	147.090	Antietam Radio Association
8:00 P.M.	146.970	Ole Va Hams
	28.447	Southern Maryland ARC
8:30 P.M.	145.450	Maryland Apple Dumpling RAS (1st, 3rd)
	28.340	GARC
	147.105	Anne Arundel Radio Club (2nd,4th & 5th)
	145.190	Dept. of State/Voice of America
9:00 P.M.	146.835	Goddard ARC

## Friday

none

## Saturday

8:00 P.M.	52.250	Metro Communications Network
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## Daily

6:00 P.M.	3.920	MEPN
6:30 P.M.	146.670	Baltimore Traffic Net
7:00 P.M.	3.643	MDD
7:15 P.M.	146.220	Shenandoah Valley Emergency Net
7:30 P.M.	3.717	Maryland Slow Net
10:00 P.M.	3.643	MDD

## Special

Skywarn	147.030	Skywarn
	145.350	MD Skywarn
Bay Wx Net	147.105	AARC (Sat,Sun 11am/3pm from Apr 1-Nov15)
7:30 P.M.	146.790	No. VA FM Assc. (equip clinic-1st Wed)

## Eat Outs

FARA Last Sat. of the month at Ho-Jo's Warrenton  
MVARC 4th Sat. Mt. Vernon Denny's  
Green Mtn 1st Sat. Fountain Cafe Laurel

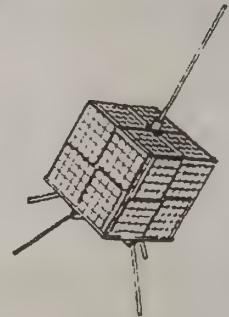


THE  
**MID ATLANTIC**  
DX & REPEATER ASSOCIATION™

*Proudly Presents*

# **HAMFEST '95**

## ***Sunday, July 23***



ARRL Test Session  
Seminars  
Demonstrations  
Flea Market  
Commercial Vendors

**BRING THE FAMILY!**  
Potomac Edison Electric Car  
Brunswick Train Museum  
Food by Local Restaurants  
Antique & Craft Shops



Multimedia **INTERNET** Seminar  
AMATEUR TELEVISION Demonstration  
OSCAR Communications Demonstration

### **Rain or Shine !**

General Admission \$5 / Flea Market Table \$5 / Non-Commercial (Tent) \$7 / Non-Commercial (Indoors) \$15 / Commercial (Tent) \$10 / Commercial (Indoors) \$15. Tent/Indoor spaces must be pre-registered.

Write: MADRA HAMFEST '95, 230 N. Potomac St., Hagerstown, MD 21740

**Directions: Take RT.340 to RT.17 South and follow signs to the MARC TRAIN STATION in**

# ***Historic Brunswick***

## **Frederick County, Maryland**

TALK-IN: 147.060 / 448.125 MHz Repeaters  
MADRA NET Every Tuesday Night at 7:30PM on 147.060+

PHONE 1-301-416-8447 BOX 109





## Anne Arundel Radio Club

**Meetings:** First and Third Thursday of the month at 8 p.m. at the Davidsonville Family Recreation Center, Queen Anne Bridge and Wayson Roads off Maryland Route 214 near Annapolis.

**Mailing Address:** P.O. Box 308, Davidsonville, MD 21035

**On The Air:** 2030 Thursdays when there is no club meeting on 147.705/105. Tuesdays at 2030 local time on 28.410. Wednesdays at 2000 on 444.400. The Chesapeake Weather & Traffic Net on 147.705/105 at 1100 and 1500 every weekend day and public holiday from April 1 to November 15. MSN (Maryland Slow Net) every evening at 1930 on 3.7170 Mhz.

**Information:** Margaret (Holly) Bevan, 410-923-0229.

Club Member Bob Israel/WC3I gave a very informative explanation of the ARRL VE Testing Program at the May 18th club meeting.

Bob heads the Laurel testing group which is composed of AARC members and which administers VE Exams at the AARC clubhouse on the second Saturday of each month.

The weekend of May 20th and 21st was a busy one for public service events. Relay for Life was a fund-raising event by the Anne Arundel County Chapter of the American Cancer Society.

It was held at the Severna Park High School running track from 6 PM on Saturday until 6 PM on Sunday. Coordinator Phil Harich/N3UNF, Bob Baltz/N3MNT and John Elliott/N3NCJ set up and tended the loud speaker system.

On Sunday May 21st AARC volunteers, coordinated by Dave Evartt/N6TAU, provided commu-

nications for the 4th annual "Walk for the Animals" held at Quiet Waters Park. This event was a fund raiser for the Anne Arundel County Society for the Prevention of Cruelty to Animals.

Most participants in the 6-mile walk were accompanied by their pets, which ranged from pure-bred canines to an iguana.

At the clubhouse on May 13th, Bob Israel/WC3I, Charley Tiemeyer/W3RMD and Oscar Ramsey/NV3G gave 25 tests to 15 persons.

Nine tests were passed with 6 upgrades. Other members of the team were: Harlan Ray, III/AA3FE, Herb Elkin/KA3FDO, Robert Kammer/N3POX, Lew Hendrixson/N3IJK, Bettye Tiemeyer/K3VRZ and Holly Bevan/N3BMB.

The next testing session at the clubhouse will be on July 8th.

Congratulations to Steve Werner/KD4YMU and Nick Shearin/N3TXY who have upgraded to General, and to Howard Kingman/N3PSD who is now Tech+.

Sherrill Bower now answers to AA3KS. Her former call was N3ITM.

73, Holly/N3BMB

### Chapter X



*Society*   
*of Wireless Pioneers*

THE INTERNATIONAL ORGANIZATION  
OF PROFESSIONAL RADIO TELEGRAPHERS

**For Information Call  
(703) 536-9537**





## Antietam Radio Association

**Meetings:** First and Third Tuesday of the month at 8 p.m. in the Conference Room at the Washington County Regional Airport, Showalter Road, Hagerstown, Maryland.

**Mailing Address:** P.O. Box 52, Hagerstown, MD. 21741

**Nets:** Tuesday 7 p.m. 146.940 MHz.; Wednesday 7 p.m. 447.975 MHz.; Thursday 7 p.m. 147.090 MHz.

**Repeaters:** 147.09+ and 146.94 -.

**Information:** Donnie Sue Mulligan/  
KB3AOO (301) 582-2984

Art Snowberger/KA3BCT is home from the hospital, and doing very well, after having triple by-pass surgery on April 27. Our thoughts and prayers are with Art and Nava.

The 1995 Great Hagerstown Hamfest and Computer Show was a success in spite of the rain that started about 8 a.m. and lasted most of the day. The vendors filled the circle inside the Athletic, Recreation and Community Center with over 100 tables with new and used amateur radios and ham related equipment, as well as computer software and hardware. Because of the weather, Joe Rummel/NS3Q and our Prez Pat Ryan/N3PMO told the tailgaters to come inside. Most of them did and thanked us for our consideration. Ted Lawhead/WA3AAT with his crew came inside the ARCC building where we sold tickets. Made us all happier and drier HAMs!

Joe Rummel/NS3Q deserves a big round of applause for the work he put into the Hamfest and for other ideas for next year. Page Pyne/WA3EOP and Fred Bailey/N3HTN likewise for their assistance in acquiring the door prizes; Page and Amanda/N3TVD for their work at the prize table; Bob Binau/WB3GEJ for Talk-In; Al Boyer/N3NVT and Larry Bellela/N3QBK for Security;

Ted and his crew for selling tickets; Charlie Mulligan/N3MVR and his crew for set-up, tear-down, maintenance; Carlo Bellela/K3ABH and Don Marsden/KD3TY for Receipts; and Al Boyer for Traffic Control.

Others that assisted in the many phases of the Hamfest were: Carol Rummel, Bob Long/KD3JK, Roger/KB3ADU, Gene/N3MZB, Jim/N3PMP, Irv/N3RDU, John/N3TDN, Jeff/N3PMN, Jack/W3NHR, Charlie/NF3X, Ray/N30DA, Marion and Luke Mongrain, Donnie/KB3AOO, and the staff at Hagerstown Junior College for their support. I apologize for missing any names of those who assisted and my sincere THANKS to all of you!

The main 6 PRIZE WINNERS were: GRAND PRIZE-Alinco DR600TB-Debra Wharton/N8SIVQ 2nd Prize-Yaesu FT2500M-Al Boyer/N3NVT 3rd Prize-Alinco DJ180T-Ray Braumill/WB3HDZ 4th Prize-Uhiden BCT 7 Scanner-Rich Andreas/KB3YG 5th Prize-Pyramid PS36k Power Supply-George Francis/W3ASE 6th Prize-Kantronics KPC3-Jim Thomas/KA3JDL

In addition to the above, there were 1100 copies of "Nuts and Volts", 25 copies of "Road To Ham License", 6 copies of the Gordon West Code Tapes, and at least 40 other prizes were handed out and/or awarded. The Antietam Radio Association thanks the many companies, dealers, and vendors who made our prize list so long and wonderful!

Our THANKS to Mark Kraham/WB8ZLQ for sending out the Channel 25 news crew for the 11 o'clock news report of the Hamfest, May 14, 1995!

Next issue, you will hear about our Field Day

73, Donnie Sue/KB3AOO



Reminder - all submissions for

**AUTO CALL**

are due no later than the 1st of the month prior to the month of publication!!





## Baltimore Amateur Radio Club

**Meetings:** Twice monthly, 7:30 pm at Towson Presbyterian Church, Chesapeake and Highland in Towson Maryland. On First Wednesday of the month: business meeting. On the third Wednesday of the month: programming.

**Repeaters:** W3FT/RPTR 146.67(-), 224.24 (-) (no PL) and 449.625(-)(PL 107.2) Note: two meter/220 Mhz. are linked.

**Club Net:** Every Tuesday night at 8:30 pm on 146.67/224.24.

**Club BBS:** (410) 665-7646 (min. 2400 baud)

**Club Voice Mail/Info:** (410) HAMTALK

**Hamfests:** Greater Baltimore Hamboree & Computerfest/Maryland State ARRL Convention information: (410) HAM-FEST or (800) HAM-FEST.

**Mailing:** BARC, Inc.; P.O. BOX 120, Reisterstown MD 21136

Please note that meetings in July will be held at the alternate summer meeting place since the school is closed for the summer. Arrangements have not been finalized at press time, but the meetings will most likely be at the Towson Presbyterian Church (see header of this column for details).

May's program was a trip back in time, led by Bruce, W3UWV. Bruce spoke about the early days of wireless radio, and brought along some homebrew devices for show and tell. Rumor has it that a club member has the talk on videotape. Gee, I wonder if the picture or audio suffered any ill effects when Bruce fired up the spark gap transmitter? Thanks, Bruce for an enlightening program.

July's speaker will be Mike Marcus (sp?). Mike is the Federal Communications Commission Coordinator for spread spectrum techniques, and will talk about that relatively new branch of our hobby. Join us on the 19th and learn more about spreading yourself thin over the airwaves.

Congratulations to N3QDU for winning the May fox hunt. Also kudos to the second team to find the fox, Andy, N3JYO; Cathy N3QIX, and Dave N3SCF. The foxes, Keith and Mel, managed to confound the hunters for a pretty good while despite being hidden barely 400 yards from the starting point. All sorts of magical manipulations were used to fool the hunters, including changes in power level, holding the radio/antenna sideways to change the polarization, etc. Andy and Cathy and Dave will play the foxes next month (June). For current information about scheduled hunts, check the club net or the voice mail system.

Several volunteers have stepped forward to fill club committee vacancies. Thanks to Paul, N3MOG for taking on the editorship of the Modulator. And kudos to Chuck, K3FT, for stepping in to take the public service chair.

... 73 de N3IVO/Rosie



## Carroll County Amateur Radio Emergency Team & Radio Club

**Meetings:** Second Monday (business) and last Wednesday (program), at 7:30 PM Carroll County EOC, Washington Road (Route 32) 1 mile north of Route 97, Westminster, MD. Talk-in 145.410-.

**Nets:** 8:30 PM daily CARET net 145.41. 8:00 PM 1st Wed. Mason Dixon Swap Net 145.41.

**Repeaters:** 145.41 MHz, 449.875 MHz, 53.090/52.090 MHz.

**Mail:** CCARC, Inc. P.O. Box 2099, Westminster, MD 21158.

**BBS:** K3ZPN, 145.03 and 446.075 MHz.

We started the month with a very good MS-Walk. We had 17 HAMS show up to work on the net, they were: Jeff/N3SLO (who was also one of the MS-Walk coordinators, Brian/N3ORE, Wayne/

*Continued next page*



N3MTR, Larry/WX3F, Don/K3OZP, Steve/N3SB (who finally handed in his ARES form!), Rich/N3JIA, Jeff/N3TWO, Chuck/N3TOT, Lynn/N3OQG, Bob/N3HYJ, Walt/N3RKI, Mike/N3KTX, Phyllis/N3BYU, Pete/N3MGB, and Bob/N3MBY. We had one minor mishap when one of the walkers fell and scraped a hand. The Walk coordinators wanted to be sure every thing was OK and requested that Mike take the ambulance and take a look. The second was when a mother reported her son missing. He was located by one of our mobile teams even before he was completely described. Good job one and all! Phil brought an antenna mast made of PVC pipe he put together in one hour the evening before.

Things we all need to remember when we are in a net is that first, all communications is at the direction of net control. If you have something important to say use the word "break". This lets net control know that you have important information or a priority problem. Do NOT ever start talking to another station on frequency without being given leave by net control. This breaks net discipline and will only lead to chaos. If other stations cannot hear you, and they haven't heard net control give you the frequency, they may come in with a "break" and wipe your transmission out to the person you were trying to talk to. Now, if this other station did the same thing you just did, going directly back to a station asking for information that he heard (remember, they still don't hear you, but he is close enough to the person you're sending to) then he wipes your transmission out to the person you were trying to help. In the end no one gets help and we have chaos, similar to what happened to the fire department communications during the Westminster explosion. Second, we are communicators ONLY! We are not the first aid people, we are not the sand baggers, etc. We communicate only.

Overall this was a great experience. From small mistakes we learn proper net protocol so that during a real emergency we all operate correctly. Thanks to everyone for showing up and impressing the local police and our hosts, the MS-coordinators, with our ability to get the job done.

New members this month: Steve Beckman/N3SB, Wayne Grauel/N3TNS, Patricia J. Grimes/N3UW, John L. Grimes/N3UHC, and Joseph M. Blaylock/N3TVN. Welcome folks we're glad to have you!

Assistant Emergency Coordinators are: David Furman/KG6TU, Doug Bumstead/N3CWG, Bob Dickey/N3HYJ, Richard Suvall/N3JIA, Larry Solarczyk/WX3F, Charles Cunningham/N3TOT, and Wayne Leister/N3MTR. Thank you gentlemen, I will expect great things from you in the future to match and exceed your accomplishments in the past.

Aside from the cold and rain near the end of the March of Dimes walk America we had a good time. There were emergencies or problems other than when the rain soaked Riches jacket and he could no longer get into net control directly, we got to practice relay communications. We had 10 people: N3SB/Steve, KE3FL/Phil, N3MTR/Wayne, N3SOK/Jerry, N3JIA/Rich, WX3F/Larry, N3TWO/Jeff, N3UHC/John, N3UW/Pat, and N3OZP/Don.

Larry/WX3F was our organizer with the March of Dimes people, thanks Larry for a job well done. N3MTR/Wayne was our net control station along with the help of Jeff/N3TWO, good job men. Thanks to all of you who showed up and withstood the cold and wet.

73, Phil/KE3FL, EC Carroll County.

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### *ELMER'S CORNER continued from page 14*

ture that won't let you blow the output transistors in your rig if you are operating into a severely mismatched load.

Switching regulators supply a variable width pulse to control the amount of power transferred between source and load. They operate like light dimmer switches, sometimes generating a lot of switching "hash" if not properly filtered. They do dissipate less power because it isn't generated if it isn't needed.





## Central Maryland Amateur Radio Club

**Meetings:** 4th Friday of the month at 7:30pm, at the New Carrollton Municipal Center, 6016 Princess Garden Parkway, New Carrollton, MD (no meeting in December).

**Repeater:** N3EZR/R 145.230 MHz

**Net:** Every Tuesday, 9:30pm, 145.230 MHz repeater.

**Mailing Address:** Central Maryland Amateur Radio Club, 6016 Princess Garden Parkway, New Carrollton, MD 20784.

**Information:** Oscar Ramsey, Pres - NV3G, (301) 262-3392.

As of March 25, 1995, CMARC became an ARRL Affiliated Club. The Atlantic Division Director, Hugh A. Turnbull/W3ABC and the Maryland-DC Section Manager, William Howard/WB3V along with the Maryland-DC Affiliated Club Coordinator, Tony Young/WA3YLO helped us celebrate this event at our May meeting. Bill Howard presented an overview of Section Activities, including ARES/RACES, outreach to youth, and various other ARRL sponsored or affiliated activities. Hugh Turnbull then discussed FAR Scholarships, his work on the Standards Committee (especially in regards to radio frequency interference) and the new process for obtaining vanity call signs. Finally, Tony Young made the official presentation of CMARC's ARRL Affiliated Club Certificate.

Items discussed in an abbreviated business meeting included CMARC's involvement in Field Day, the BRATS HamFest and the Greenbelt Labor Day Festival. Also discussed were the upcoming repeater upgrade and the Novice/Technician class for this fall.

CMARC will operate a Field Day station in the 73rd Court Park on Ridge Road between Lastner Lane and Research Road in Greenbelt, MD under the call sign N3ODK. A Novice/Tech station is planned under the call sign N3RLN.

CMARC will start set-up at about 10am Saturday, June 24th, and will operate from 2pm until about 8pm on Saturday only. CMARC's involvement in Field Day is to promote emergency preparedness among its members and to have fun - NOT to accumulate the highest possible number of contact points. However, we will be trying to earn as many bonus points as we possibly can!

73 de Jim/KD3JA



## Fauquier Amateur Radio Association

**Meeting:** 7:30 p.m., Second Tuesday of the month except July, August and December. Shadow Lawn Recreation Center, Warrenton VA. Next meeting, Sep 12, 1995.

**Breakfast:** Last Saturday of the month at Big Boy (next to HoJo's) Warrenton, VA. 7:30-9:00 a.m.

**Net:** Every Wednesday, 9:00 p.m, 147.165 Mhz NZ4N Repeater.

**Packet:** FARA7 node 145.070 Mhz with direct connect to FBBS9 Bulletin Board 145.090 MHz, FARA9 node 145.090 MHz.

**Repeater:** NZ4N/R 147.165 Mhz (+0.600 Mhz).

**Newsletter:** TOROID, Monthly. (A complimentary issue is usually available from Warrenton Radio Shack).

**Information:** Don, WY2V, (703)347-5745.

Summer is here and the pace of club activities will slow a bit for the FARA folks. We'll be taking the months of July and August off officially, but we'll still meet for Saturday breakfast once a month and the Wednesday night net will continue.

Field Day caps the "95 fiscal year" for the club. As of the publishing deadline we had the CW, SSB, Novice/Tech, and VHF stations lined up. Looks

*Continued on page 48*





## Goddard Amateur Radio Club, Inc.

**Meeting:** Third Wednesday of each month at 5:00 p.m. at the Goddard Amateur Radio Club station, Soil Conservation Road, Greenbelt, MD, across from the Soil Conservation Road gate of the Goddard Space Flight Center. This road may be accessed from either Route 193, Greenbelt Road, or Powder Mill Road.

**Net:** Information net is held every Thursday evening at 9:00 p.m. local time. All amateur radio operators are welcomed. Net Control is Don Bennett, W3MIK

**Repeater:** 146.835 Mhz.

**Information:** Jim Blackwell, N3KWU, (301) 286-4534; Vikki Gigante-Hueber, KA3PVS, (301) 249-2609.

Well, if the woodpeckers ever stop chomping on the external tank looking for a nesting place and the inflatable owls do the trick, we may have a launch by the time you read this. STS-70 and/or STS-71 should be off by the end of June. This means that shuttle retransmission will be real busy again at GARC complete with the new air conditioner and the operators and equipment keeping it cool. The new trailer is wonderful and we love doing shuttle retransmission from it, please come and see us at WA3NAN, on Soil Conservation Service Road, across from Gate 10. We love company and we love to show people around. During shuttle missions, we are awake when the astronauts are so come visit.

These next two missions will be SAREX missions, one is the TDRS launch and the other is the MIR Docking and retrieval of the people on the space station. The TDRS mission is currently scheduled for June 8 and the MIR Docking for June 19. The first will be a six day mission and the second an eight day mission. The downlink for SAREX for voice will be 145.55 and uplink 144.91, 93, 95, 97 & 99. Downlink for packet is the same but uplink is 144.49.

We have new officers. After two wonderful years, the current officers have stepped down and we have wonderful new officers. Thanks for your help to the old officers. You were great and accomplished a lot during your tenure. The new officers are Robert DiRosario, President, Randy B for Vice-President, Dan Schultz for Secretary and Roberto Aleman as Treasurer. Good luck in the coming year guys. Have a great summer all and hope to see you at GARC!

Vikki, KA3PVS



## Green Mountain Repeater Association

**Meetings:** Board of Directors, Last Monday of each month.

**Repeaters:** KD3VR-146.61 (Cheverly), K3GXF-146.88 (Greenbelt).

**Luncheon:** First Saturday of each month at the Fountain Cafe, in the Laurel Shopping Center Mall, US Route 1 (Baltimore Ave.) and Cherry Lane. Starts at 11:30 AM.

**Mailing:** GMRA, P.O. Box 429, Riverdale, MD 20737

**Information:** Boyd Nelson - KZ3Z (301) 434-0934

GMRA held its regular monthly luncheon gathering at the Laurel Center Shopping Mall on Saturday May 6, 1995. There was just a fair turnout of members and guests. Due to some prior commitments, some of the regular attendees were not able to come.

The amateur radio community always finds it hard to mention one of its own has become a Silent Key. On Tuesday, April 25, 1995 Tucker Cameron, KD3KT became a Silent Key. Tuck, as he was known to his friends and associates, was an active and greatly respected member of GMRA. Tuck was always there as a staunch supporter of the Repeater Association and he will be sorely missed by all.



On April 24, 1995 the Board of Directors of GMRA held its monthly meeting at the home of the President, KD3VR. Some of the business discussed had to do with the repeater antennas. As mentioned in previous articles of Auto Call, GMRA is planning on replacing the existing dipole type to high quality vertical antennas. Sometime in the near future all of this will be accomplished hopefully.

Any members wishing to donate any electronic equipment to GMRA will be greatly appreciated. This can be sold at Hamfests with the proceeds going into the Antenna Fund to help defray costs. Caps with your call sign and the GMRA logo are being sold for \$10.00 and \$3.00 of that also goes toward the Antenna Fund.

Please help to recruit new members to GMRA. Remember, for every 3 new members you will receive one year free membership. Now that is a real good deal. Don't forget the luncheon on the first Saturday of each month and bring a friend along.

Note: This is a late piece of news worth mentioning. A young lady by the name of Jessica won a first place ribbon for her 6th grade science fair project in a county wide science fair judging contest. Her proud Granddad is none other than Murray Green, K3BEQ who was the first President and still an active member of GMRA. Congratulations Jessica.

73's Ken Easton N3HLY



## Laurel Amateur Radio Club

A Volunteer Examiner Coordinator

**Meetings:** 4th Wednesday of each month (except November & December) 7:30pm at 384 Main Street, Laurel Md.

**Social:** 2nd Wednesday of each month, except December (Call for directions).

**Nets:** 1st & 3rd & 5th Wednesdays, 8:30pm, on 147.225+, no tone.

**Mail:** P. O. Box 3039, Laurel, MD 20709-0039

**Exams:** 3rd Saturday of each month, to pre-register contact: John/WB3GXW (301) 572-5124 after 6 P.M.

**Information:** Jim/WI3N (301)725-6829 or Pud/W3DQI (301)498-6293.

The month of May is the busiest month of the year for the members of the Laurel Amateur Radio Club. On the first weekend the LARC provided communications for the Montpelier Festival and simultaneously conducted a Special Event station to celebrate the 25th anniversary of the Festival. The Special Event station made 325 contacts on the 40M and 20M bands in a seven hour operating period. On the following weekend, the LARC supported the Laurel Main Street Festival, which involved helping the staff coordinate the parade and vendor set up, besides liaison communications with the Laurel police and other public service units. The third weekend, the LARC VE team conducted its monthly exam session at the clubhouse facility, administering 37 elements to 20 individuals, of whom 15 upgraded. And then, at our regular club meeting on the fourth Wednesday of the month, several of our members demonstrated some software programs related to amateur radio activities, i.e. logging programs, callsign databases, code practice programs and satellite tracking. To say the least, the month of May has been fun!

The month of June looks no less busy! On June 3rd, some of the LARC members will be support-

*Continued next page*



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ing the activities at the Fairland Aquatic Center, followed by the VE session on the 17th and of course Field Day on the 24/25th. For Field Day, the club will operate in the "3A" category and set up in the WSSC field on Brooklyn Bridge Road, near Supplee Lane Park. Last year the club lofted a balloon with an antenna...and this year...naw, you would believe it if I told you!

A couple of LARC'ers had the good fortune to visit the Dayton Hamfest this year. Russ/N3NYI and Joe/NA3T, both came back with glowing reports of their experiences. It's got the rest of us thinking that next year we just might take the plunge and go for it!

73 de Roger/N3MIJ



## The Maryland Apple Dumpling Radio Amateur Society, Inc.

**Meetings:** 2nd and 4th Thursdays - 7:00 P.M.  
NBC Building - WKYS Conference Room,  
4001 Nebraska Avenue, Washington, DC.

**Nets:** 1st and 3rd Thursdays at 8:30 P.M. on  
145.45 MHz.

**Repeaters:** 444.100 PL-2/449.100 MHz,  
145.45/144.85 MHz.

**WWW Address:** <http://mvhsl.mbhs.edu/~fwright/MADRAS.html>

**Mailing:** P. O. Box 2468, Wheaton, MD 20902

**Exams:** 3rd Saturday of each month, 10:00am,  
at Maryland Radio Center, Laurel, MD.

**Information:** Hani Raad - AA3EI (202) 223-  
3925, Larry Ziecheck - N3GKZ (301) 984-  
6113, Jean Blacik - N3PLC (301) 984-6113.

MADRAS extends thanks to Hani Raad AA3EI, for his informative presentation, along with slides, on "World Wide Web", at our May 11th meeting. Our originally scheduled guest speaker had to reschedule at the last minute and Hani came to our rescue and gave a great talk to the club.

For those of you who are interested in catching the presentation on "Slow Scan Television", this will be the topic at our June 8th meeting.

Our QSL card signing party on May 25th was a huge success. Members started arriving around 7:00 P.M. and we started to fill in the cards.

So far we have received 200 requests for QSL cards from our special event at the Voice of America honoring Presidents Day in February. The event took place February 18th & 19th. A pizza party followed and we had a delightful time reminiscing about some of the more unusual contacts we made.

One of our operators made contact with a ham in Canada who was giving a talk on "Ham-Radio" to her group of Girl Guides (we have the Girl Scouts). She let each one of the group, which was about 12 girls, speak with Michele WK3X, who had made the contact. The girls were most impressed that not only did they get to talk but it was to someone from Washington, DC. It would be interesting to know if any of these young ladies will take up the hobby after this experience.

Once again, Michele WK3X, has volunteered her spacious back yard for our annual MADRAS Picnic & Barbecue. Mark your calendars for July 16th

We will be contacting each one of you the first week in July for your food donations to the picnic. We'll start at noon and close out about 6:00 P.M. Looking forward to seeing as many of you as possible at this gala event.

Anyone knowing of a favorite restaurant you would like to suggest for our annual End of Summer dinner, please contact Jean at the Clubhouse. We'll have our dinner in August as usual, so we have plenty of time to pick out an eating place.

Happy Fourth of July ! ! ! !

73's .... Jean - N3PLC





## Metrovision Amateur TV Club

**Meetings:** Quarterly: Call for next meeting time and place.

**Repeater:** WA9GVK/4 ( video and audio ) 425-431 MHz in; 438-444 MHz out. Also accessible on 144.970 simplex audio.

**On-the-air:** Sundays ( ATV Net ) at 8:00 P.M. Wednesdays ( Ragchew ) at 8:00 P.M.

**Mailing:** Metrovision, Inc., P.O. Box 8231, Falls Church, Va., 22041.

**Information:** Jim - KA4CKI (703) 494-6342, Tom - KO40X (703) 752-2100.

The Metrovision annual meeting was held on March 2, 1995 at the QTH of WB3EPX-Dick. We had eleven members in attendance. The photos that appear with this article are from that meeting. I will try and include more photos from the meeting in future articles.



*Bernie / WD4O (left) and Eddit / W3HQ (right) at March Metrovision annual meeting*

On the technical side, we are using a new 900MHz amplifier which is putting, on average, eighty watts into the vertical antenna. More on this later. We have also installed a new crystal in the 400MHz transmitter to reduce drift. We have the approval from the cable TV company to install a satellite station (using their tower) in the Dale City, Va. area. More on this later also.

Let me remind everyone again that Metrovision is operating our 400MHz ATV station on a horizontally polarized antenna system. For those of you who, haven't as yet made the change to your antennas, we suggest that you do so for optimum transmission and reception. For the most part, it only should involve rotating your antenna ninety degrees.

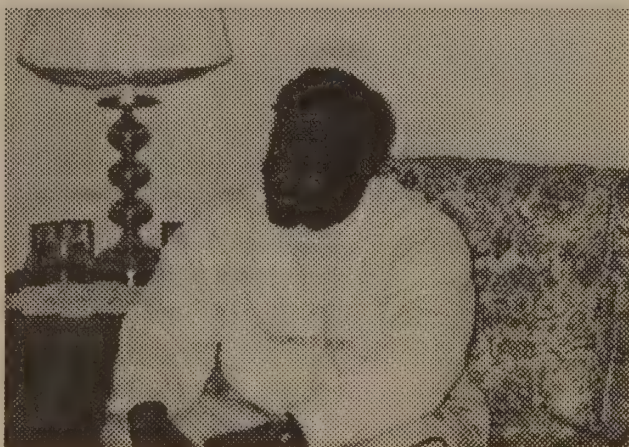


*Members of the Metrovision Amateur TV Club attend annual meeting at the home of Dick / WB3EPX.*

Please continue to respond to my request for information for this article. I would like to be able to write an article each month. But of course, that depends on you.

See you on ATV.

73 Dick



*Bob / KC3VO at Metrovision Amateur TV Club meeting*





## The Mid-Atlantic DX and Repeater Association

**Meetings:** Second Thursday of each month, 7PM, rotating locations among Hagerstown MD, Frederick MD, Martinsburg WV and Greencastle PA.

**Net:** Tuesday evenings at 1930 local on 147.06

**Repeaters:** 147.345 (Martinsburg), 147.06, 224.20 & 448.125 (Frederick).

**Mailing:** 230 North Potomac St., Suite 2A, Hagerstown MD 21740

**Information:** Voice BBS 301-416-8447; select box 126 for Sam, N3MPE LandLine BBS: (301) 416-8435

We continue to be impressed by the improving response time our VE team is enjoying through the ARRL VEC and the FCC. After the monthly test session on the third Saturday, completed documents are mailed on the following Monday.

Approved test results are showing up in the FCC database by the next Monday, and sometimes earlier. Just a reminder: the July VE session will not be in Smithsburg MD on the third Saturday, but will be held Sunday, July 23, at our SweatFest95 HamFest in Brunswick MD. The Brunswick Volunteer Ambulance Company is making their classroom facility available for MADRA's July VE session.

The rebuilt and reinstalled Martinsburg WV 2M repeater is receiving good use despite not being up to its full level of coordinated power. We are continuing to work on plans for linking 147.345 with 147.06 for nets and emergency drills. ARES organizations in WV and MD make use of these machines, so careful liaison with all concerned is a top priority in the planning.

Preparations for SweatFest95, MADRA's first HamFest, are moving along for July 23. Brunswick

OldTown stores are planning to be open during the 'Fest and we expect this to be of interest to Hams and the non-Hams who might accompany them. Brunswick is the MARCRail hub for the western line of commuter trains feeding Washington and Baltimore. This makes a giant downtown parking lot available in addition to the areas near the train station which MADRA has reserved for tailgate and commercial vendors.

MADRA's June activities were scheduled into several different areas. The monthly club meeting was moved from its usual second Thursday spot to Saturday, June 10, at noon; the location: Greenbrier State Park. Last year's picnic suffered from rainout and multiple schedule shifts. As the club column went to press, we were confident of a much better situation in 1995. Watch this space for the result.

Other June events getting a lot of planning attention are the June VHF QSO Party, Field Day (of course) and SkyWarn training in cooperation with the Frederick Amateur Radio Club.

Don't forget that all are welcome to join us for the July meeting. It will take place on Thursday, July 13 at 7PM. The location will be Hoss's Steak House on Queen Street in Martinsburg WV. MADRA meetings are always devoted to radio, food, conviviality and NO CLUB BUSINESS (with rare exceptions).

73 DE N2CSQ/3

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## National Capitol DX Association

**Meetings:** Feb, Apr, Jun, Oct and Dec. at a member's home. Contact the Secretary (Rick Murphy, WA1SPT) for details.

**On-the-air:** Every Sunday at 8:30 PM on the 147.000 repeater. All are welcome!

**Information:** Brian Bayus-N1KCE (703) 264-1180, Rick Murphy-WA1SPT (703) 280-2637 or Leo Boberschmidt-KA3TGY (301) 946-3738 or N1KCE on the Local DX Cluster or N1KCE@KF4TE.VA.USA.NA.

The June meeting, held in conjunction with the Potomac Valley Radio Club and Frankfort Radio Club, at the magnificent contest station of Frank Donovan, W3LPL, was a huge success and a special treat for all of us. Thanks to Frank and the PVRC folks for the invitation and great time.

Our August meeting will, we hope, be another "road trip" out to the waterways of Maryland for the annual "Fowl Fest", another joint meeting with our friends of PVRC. More details next month and in the meeting notice to NCDXA members.

A belated "Congratulations" and "Welcome Aboard" to our most recent new NCDXA Members, Erinn Tordella-N3HSA and Richard Maylott-W4LMJ. It's always great to have new people full of energy and interest.

Again, if you are interested in DX and DX related items, we would certainly welcome your participation. Please give me or one of the other people listed above a call for additional information. Also, join us on the weekly Sunday night meeting on the air. It's at 8:30 PM on the 147.000 repeater. Stop in and find out what's going on.

Until next time....

73 and Good DX, Brian Bayus-N1KCE



## Northern Virginia FM Association

**Meetings:** Fall, Winter & Spring

**Nets:** NVFMA Bulletin, Wed, 8 PM, 146.79.

National Capitol ARES, Sun, 9 PM, 146.91.

Equipment Clinic, 1st Wed of the month, 7:30 PM, 146.79.

**Repeaters:** 52.37/53.37, 146.19/146.79, 146.31/146.91, 222.50/224.10 Xlink, 222.74/224.34, 449.75/444.75, 1272.1/1292.1.

**Membership Info:** Ann /KD4GSU, (703) 481-1458.

**Mailing Address:** NVFMA, P.O. Box 486, McLean, VA 22101.

### New NVFMA Newsletter Arrives

Hello NVFMA! By now, all NVFMA members should have received the first issue of the "NVFMA Quarterly". It is hoped that all members enjoyed the "new" newsletter. It is also hopeful that this newsletter will grow and become a long tradition in the times to come. It is also hoped that the number of pages, in the newsletter, will be increased in the upcoming issues. We openly solicit your thoughts and comments. As we have noted before, this newsletter belongs to you the members. So, submit your thoughts and classifieds and we'll try to get them into the newsletter.

### NVFMA Newsletter Contest Continues

Please don't forget the "Name The NVFMA Newsletter", which closes on August 1, 1995. Submit your choices (no more than 3) on the your NVFMA renewal notices, and if you're not a NVFMA member...please join us! All amateurs are welcome to use any of the NVFMA repeaters, and you're cordially invited to show your support by becoming a NVFMA member. You too, will then be able to participate in the contest! For NVFMA membership information, please contact Ann

*Continued next page*



Herlich/KD4GSU @ 703-481-1458. The winning entry will be decided by the NVFMA Board and the winner will be presented with a KPC-3 TNC. What a deal!

### NVFMA Repeater News

The NVFMA is seeking interested and qualified members to assist the Technical group in "low tech" activities. The maintenance and servicing of all the NVFMA repeaters is a major aspect of the NVFMA, as all the NVFMA repeaters are open to all amateurs everywhere. If you are interested, please contact Sam Ruffin/KM4OI @ 703-349-0977. The NVFMA Board has agreed with NVFMA President Mike Ryan/KB4CVL that no new projects will be undertaken until the Bull Run Mtn. 91 Remote site has been completed.

In other related NVFMA repeater news, discussion has been aired in regards to placing a "remote" site on Bull Run Mtn, Va. and in Calvert County, Md., for the NVFMA 224.34 machine. This machine should be back on the air by the time this column goes to print. The interference on the NVFMA 440 repeater continues, but the problem and the concerned parties have been notified. It appears that it is only a matter of time before the problem is resolved.

### New NVFMA By-Laws

The NVFMA board has reviewed and approved a new set of By-Laws for the Association. This action now places at rest, any previous confusion resulting from prior By-Laws. If you have any questions about the new By-Laws, please contact a NVFMA Board member, who will assist with your questions.

### Membership

The new 1995 NVFMA Handbook will soon be in the mail to all NVFMA members. Included with the new directory will be the 1995 Autopatch codes. This handbook lists all the NVFMA repeaters, describes repeater operating guidelines and carries the full NVFMA member roster. A

useful publication for all members. Mike/KB4CVL, President of the NVFMA, has procured a new "gold, black & white" 10' banner with the NVFMA logo and title. The banner will be displayed at all NVFMA functions and various Hamfests. Look for it soon. Approximate NVFMA membership now stands at "586".

Don't forget the NVFMA Bulletin, every Wednesday @ 8:00 PM, on the 146.79 repeater! Remember, when it comes to "superior" FM repeater service to All Amateurs in the Washington, DC metropolitan area...the name to remember is the "NVFMA"!

73 de Scott/KE4HCT



### North Point FM Association

**Meetings:** Second Saturday of every month - 10:00 am at Lord Fairfax Community College, Middletown, VA.

**Nets:** District 1 ARES Net - Sundays at 8:00 PM on 145.21 MHz

**Repeaters:** 53.67 / 52.67 - KD4JBY 145.21 / 144.61 (PL 131.8) - N4RAG 442.350 / 447.350 (PL 131.8) - KD4JBY 449.075 / 444.075 (PL 146.2) - KB4KRO

**Packet:** FOAKS - 145.730 (KB2CEV-2) FOAKS4 - 440.950 (KB2CEV-4) WINC - 145.730 (N3NVF-2) ARES D1 - 145.730 & 446.075 (WD4RPV-3) BBSD1 - 145.730 & 446.075 (WD4RPV-5).

**Addr:** P.O. Box 327, Stephens City, VA 22655

**Info:** Michelle Cooley - (703) 869-5250

The packet network on 145.73 has taken another significant leap forward. Thanks to the help of Dave (KD4MVG), there is now a link down to the Richmond area on this frequency. With the addition of his node (CARA-3) in Castleton VA, ARES and SKYWARN traffic can now be passed reliably throughout the entire northern half of the state. By the end of the summer, there will also be



a node in place on Chester Gap. We've come a long way since the days of one node in place at NWS-Sterling and one at Fork Mountain. The NodeOps who have helped put the network in place as it stands today are WD4RPV, N3NVF, KB2CEV, KC4ASF, and KD4MVG. Others who have contributed time and equipment to make the network a reality are KD4JBY, N4VJK, KB4KRO, KC4OCG, KD4DGQ, and KD4AUT. Most of these people are members of the NPFMA, and we're proud of the work they've done. The NPFMA hosted a test session at Lord Fairfax Community College on May 13. Thanks to the help of KR4DO, WA2RPX, NC4B, K3SW, N4ZHV, and KU3M, 9 people took their tests. The results were 3 new Technicians, 1 Tech+ upgrade, and 4 people passing their Novice written exams. We hope to continue holding these sessions on a regular basis, and are tentatively planning another session in the late summer or early fall.

The Lord Fairfax EMS Council once again held an exhibition at Apple Blossom Mall in Winchester in response to EMS Awareness Week - and members of the NPFMA were on hand to operate an ARES display. The invitation came late, and not much preparation was able to be made for this year's show. But, the invitation for next year's show has already been received, and we're hoping to help in making next year's display much better. Assisting with the display were WD4RPV, N3NVF, WA2RPX, and KF4AIN.

We are looking forward to the upcoming Manassas Hamfest. By the time this is published, many of you may have already seen members of North Point helping out OVH by handling their parking detail at the Fairgrounds. Field Day is coming up on June 24, and the NPFMA will be busy that day. Not only are members planning on participating in Field Day activities, but we will also be providing communications for the Loudoun Mile during the morning. This is a one mile run down Loudoun Street in Old Town Winchester. It's always a fun event, both for participants and volunteers.

Until next month - 73, Sean - WD4RPV



## Prince George's Wireless Association

**Meetings:** First working Tuesday of each month, 7:30 PM; American Red Cross bldg., 6206 Belcrest Rd, Hyattsville, MD 20782  
Club Station: K3CEZ

**Mailing:** 4109 Kennedy St., Hyattsville, MD 20781

**Information:** Frank Holton - WA3ZMW  
(301) 927-1245

PGWA held its monthly meeting on Tuesday, May 2, 1995 with Frank, WA3ZMW presiding. Minutes of the previous meeting were read by Ken, N3HLY. Charles, KA3COT gave the Treasurer's report. Frank read incoming correspondence and announcements of area Hamfests. Old and new business was discussed. Kathy, N3QPO announced the upcoming Red Cross exercise with local area chapters. This takes place on June 3, 1995 and on June 5th will be a SET test at K3CEZ station located in the Hyattsville Red Cross building. PGWA will be involved.

Following the regular business meeting, Frank WA3ZMW, showed an ARRL video tape of an Amateur Radio DXpedition to the South Sandwich Islands located in the south Atlantic Ocean just north of the Antarctic Circle.

The video tape showed what adverse weather conditions with winds around 100 miles per hour, frigid temperatures and many aggressive fur seals and many penguins. Yet the amateur operators made many contacts on CW and phone.

PGWA will be communicators for the "Crop Walk" on May 21, 1995 at 1:00 PM till 3:00 PM at the First United Methodist Church of Hyattsville located at the corner of Belcrest and Queens Chapel roads. Refreshments will be served.

73's Ken Easton, N3HLY





## Potomac Valley Radio Club

**Meetings:** Alternates in VA/MD. Virginia site has been Marshall High School, Route 7, inside the Beltway near Tyson's Corner. Our Maryland site is at the Church of the Nativity, just off Route 5 and the Beltway, in Temple Hills, Maryland (near Andrews AFB). Summer meetings are held at members' houses.

**Information:** Rich Boyd, KE3Q, (301) 464-8014.

It's been a while since the PVRC has been represented in the pages of *Auto-Call*. Well, we're back. The PVRC was formed in 1947, making it one of the very oldest clubs of its type. We are primarily involved in HF operating events, "contests" as they are generally called, which help populate the bands, including 15 and 10 meters during the sunspot low. Our members are at the forefront of HF station building and advanced operating practices. It's typical for one of our top stations to contact more cycle! That's just an example. Other top stations contact more than 100 countries on 160, 80, 40, 20, and 15 (each) in one weekend, even at this point in the sunspot cycle, and 150 or more on each, including 10, during better conditions.

We try to make our meetings fun, interesting, and educational. It's pretty rare these days to go to a ham club meeting where all the attendees are active on HF. Well, that's us. We also have many members who are active in the VHF/UHF operating events as well. We generally discuss HF station building and operating topics at the meetings, which alternate between a northern Virginia site and a Maryland site. Our Virginia site has been Marshall High School, Route 7, inside the Beltway near Tyson's Corner. Our Maryland site is at the Church of the Nativity, just off Route 5 and the Beltway, in Temple Hills, Maryland (near Andrews AFB). Our summer meetings are held at members' houses. Our June meeting, which

you've probably missed as you read this, was at the largest ham station in our region, W3LPL, in Howard County, Maryland, who has 7 towers, four of them 200' tall and the other three 100' tall! Our July meeting will be at KT3Y's QTH in Manassas. Phil has an amazing all-wire-antenna "antenna farm."

Call me, Rich Boyd, KE3Q, at 301-464-8014 if you'd like more information, and watch the pages of *Auto-Call* for more on the PVRC! 73 - Rich N3PXG de KE3Q



## Shenandoah Valley Amateur Radio Club

**Meetings:** First and Third Friday of every month at 7:30 p.m. SVARC Club House 2921 Grace Street, Winchester, Virginia

**Repeater:** 146.22 In/ 146.82 Out

**Net:** Shenandoah Valley Emergency Net (SVEN) 7:15 daily on 146.22/146.82 Repeater

**Mailing:** P.O. Box 139 Winchester, 22604

**President:** Irv Barb KD4BHV (703) 955-1745

**Info:** George Ritter W4UGX (703) 662-0157

After a few brief months to rest up, the SVARC hopped into spring wholeheartedly! First of all, we started the spring season with theory and code classes for new hams. Guy Black (W4PSJ) and Godfrey Miller (N8GM) were the instructors. In addition, Fred Wetzel (W4KRT) and Jack Weaver (WB4SXJ) conducted on-air code practice.

The month of May brought us out of the woodwork with events such as the Happy Trails Running Club's 100 Mile Run in Fort Valley, VA and the Apple Blossom 10K Run. The 100 Mile Run was not only an endurance test for the runners, but for the club members who provided communications support as well!

The event started well before daybreak and ran through the night until noon the following day. It's rumored that club president Irv Barb makes a



fantastic ham, egg and cheese sandwich! The SVARC Club members also gathered to provide support for the Spring Fling Biathlon, but the event was rained out.

Regretfully, SVARC member Ed Rich (K3THD) has made plans to move to Florida. We've enjoyed his company over the years and will miss him. The SVARC would like to pass along our sincere "Thanks" for Ed's generous donations of ham equipment to the club.

June was a busy month for the SVARC. The SVARC participated in an exercise with the Winchester Medical Center to test alternative communications methods.

In early June, the SVARC presented a program at a day camp for asthmatic children sponsored by the Winchester Medical Center. By the end of the summer, the club will certainly have gained valuable experience providing communications for endurance events.

On June 10, the SVARC provided support for the Old Dominion 100/50 Endurance [horseback] Ride and The Old Dominion 100 mile Endurance Run, on June 17.

On the first and third Saturday of each month, John Brooks (KC4YMR) continued coordinating Foxhunts for the club. The Foxhunts begin at noon and continue for two hours or until the "fox" is found, whichever comes first! All members who have participated have enjoyed this event.

August, of course, brings the Berryville Hamfest. This year's Hamfest will be held on August 6. Tailgate and table space are still available. For more information contact Irv Barb (KD4BHV) or Jane Barb (KD4IET) at (703) 955-1745. The Berryville Ruritan club will again be providing their famous Barbecued Chicken and beef at the Hamfest.

"Til next month 73 de KE4QJT/Laura



## St. Mary's County Amateur Radio Association

**Meetings:** Fourth Thursday of each month, 7:30 PM, at the Lexington Park library

**Repeater:** K3HKL (146.64 MHz)

**Packet:** K3HKL.#SOMD.MD.USA.NOAM (145.75/145.01/440.975 MHz)

**Lunch Bunch:** Every Friday, listen on the 146.64 MHz repeater between 10-11:30 AM to find out where to meet

**Nets:** - "St. Mary's ARES", every Monday at 7:30 PM on 146.64 MHz - "Bottom County", every Tuesday at 7:30 PM on 146.64 MHz

**Address:** SMCARA, P.O. Box 743, California, Maryland 20619

**Newsletters:** Complimentary copies are available at local Radio Shack stores

St. Mary's County Amateur Radio Association (SMCARA) joined forces with the St. Mary's ARES (SMARES) group to provide an amateur radio public service display at NAS Patuxent River's AIR EXPO 95 on May 27th.

An estimated crowd of 80,000 people showed up to view the Southern Maryland air show featuring the U.S. Navy "Blue Angels" flight demonstration team. Prior to the show, guests were treated to static displays of military aircraft and public service displays.

With hurricane season just around the corner, members of SMCARA and SMARES explained how amateur radio operators provide services to the American Red Cross, National Weather Service, and the Federal Emergency Management Agency in times of need.

The display booth showed emergency radio equipment in both its "packaged for transportation" and "deployed" positions as the equipment might

*Continued next page*



be seen at a disaster site. As members of the SMCARA explained the equipment and its uses, ARES members introduced the visitors to the various message forms used by the emergency services groups to transmit health and welfare messages.

SMARES also transmitted free radio-gram messages directly from the show site to waiting operators. These operators, in turn, placed the traffic into the National Traffic System (NTS) for delivery throughout the United States.

In other news, the SMCARA-sponsored license class recently culminated in an exam session where eight new technician class licenses were earned: Jim Downey (N3VIR), David Willenborg (N3VIS), Jim Kauffman (N3VIT), Leila Detwiler (N3VIU), Waymond Detwiler (N3VIV), Raimo Ylikorpi (N3VIW), Tom Soderquist (N3VIX) and Steven Downer (N3VIQ). Congratulations to all these new hams!

SMCARA members will once again participate in an extensive field day exercise. This year, the field day site will be aboard the Naval Air Station at Patuxent River.

All coordination will be effected via the association repeater on 146.64 MHz. Visitors are welcome to the site.

Submitted by: Pete Butt (WA3UMY)



## Sterling Park Amateur Radio Club

**Meetings:** 8:00 P.M. - Third Monday of the month except July and August at Sterling Community Center Annex, Church Rd. (Rt. 625) near Route 28, Sterling, VA.

**Mailing:** Call Box 599, Sterling, VA 20167.

**Information:** Forrest Snyder, N4UTY (Pres.)  
430-4149, W. T. "Red" Free, W3FTG (PIO)  
709-0896.

Did your antenna raising party during Field Day become a "hair raising" event instead? Or did you forget to put more oil in the generator, trip over the coax lead in the middle of the night trying to point the satellite antenna toward...what bird did you say this pass would be? Let's hope not—keep the weekend safe and sane so we can all do it again next year! Besides, how else can we relive our misspent youth as Boy or Girl Scouts?

Speaking of satellites, SPARC'ers are either gearing up to handle the STS-70 QSL cards or are waiting to find out when the shuttle will eventually go off. It sure is one way to fill the gaps when the incoming DX cards slow down to the 2X1 4th Area QSL Bureau during the trough of the sunspot cycle. Want to help? Call Dick Maylott W4LMJ and lend a hand.

The months of July and August represent a "vacation" from club meetings, time to catch up on work around the shack to get ready for the Fall contest season...plus attend the Berryville and Gaithersburg Hamfests at the very least! Then come on out to our annual "Open House" meeting on September 18 to brag about the DX you caught when everyone else was at the shore sunning, sleeping or fishing. You bought WHAT at the Manassas Fest???

Oh by the way, it's not too late to renew your SPARC membership for 1995...Send a check to

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Ray Mullins KD4RSL right now! And send your requests for program "wants" for the 1995-96 meeting schedule to your columnist via e-mail (RedFree@aol.com) and I'll get a list together for the September planning meeting of the club officers. P.S. Who is the "mystery president" for the coming year?

de Red W3FTG SK



### **The Middle Atlantic FM and Repeater Council, Inc.**

**Meetings:** Coordinating Committee (CC) normally meets the last Monday of each month, 19:30, in the OEP conference room of the Prince George's County Emergency Operations Center off Central Avenue. Talk-in on 146.76 or 147.54 simplex.

**Address:** P.O. Box 1022, Savage, Md. 20763-1022 for all correspondence.

Last month I mentioned an ARRL-sponsored coordinator's conference which is planned in St. Louis. It was originally scheduled in mid-June, but has been postponed until sometime in the fall. T-MARC will be represented. I'll keep you posted.

Recent coordination actions include coordination of a proposed new 448.525 repeater to the Boumi Temple ARC at Cockeysville, Md., and re-coordination of N3CDY's 449.275 repeater from its old site in Owings Mills, Md., to a new site at Towson. The coordination for N4QFW's 919.00 repeater at Waldorf, Md., was canceled at his request. And we noted the change of callsign for the Antietam R.C.'s repeaters to their club call, W3CWC.

The last item brings up an important point - many clubs will be applying for new club callsigns for their repeaters, now that the F.C.C. has opened the door for new club licenses. Please advise T-MARC as soon as possible if you change the

callsign on your repeater, so our database and Repeater Directory will be correct.

This month's question about coordination is "Is frequency coordination of a repeater required?"

The simple answer is "no". Participation in a frequency coordination program is strictly voluntary, just as the coordinator is doing the job voluntarily. No Amateur frequency coordinator has any "authority" to tell a repeater sponsor what he can, or cannot, do. However, the F.C.C. has recognized that participation in a frequency coordination program by repeater sponsors is in the best interest of all Amateurs.

Therefore, F.C.C. rules are in place which state that the sponsor of an uncoordinated repeater bears the primary responsibility for curing any interference between his repeater and another repeater which is coordinated [97.205(c)]. Likewise, the sponsors of uncoordinated machines can't expect any help from their area coordinator.

Starting with this month's column, we're going to print the T-MARC area "band plans" for the various VHF and UHF bands. Please note that these band plans may have minor differences from the ARRL-recommended "national band plans" due to local circumstances. Additionally, they are subject to change from time to time, as local conditions change. Here is the plan for the upper portion of the 10-Meter band:

#### **29.30 - 29.70 MHz Band Plan**

- 29.30 - 29.51 Amateur Radio OSCAR satellites (NO FM operation)
- 29.52 - 29.58 Repeater inputs
- 29.60 International FM simplex calling frequency
- 29.62 - 29.68 Repeater outputs

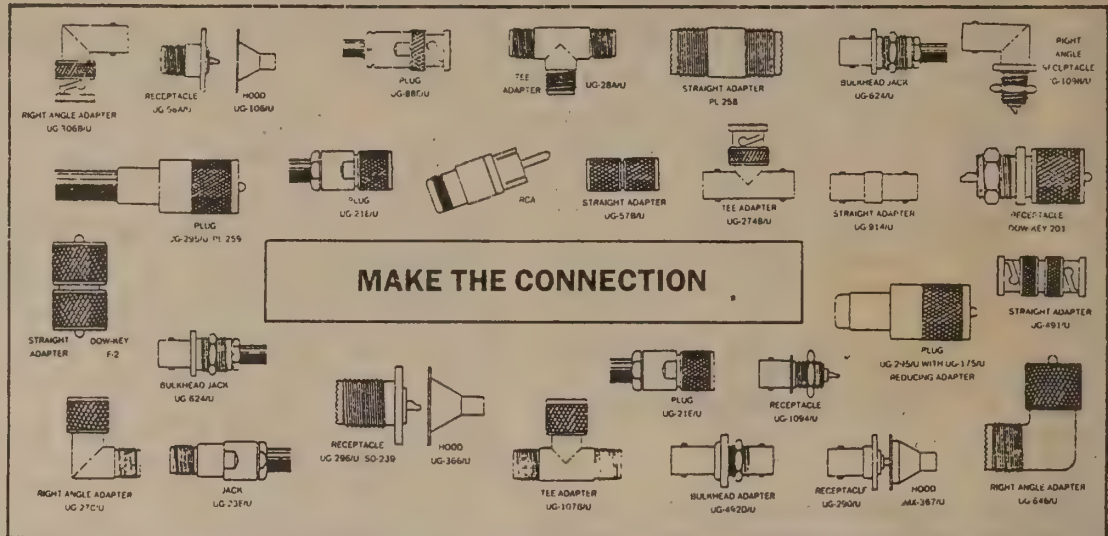
(20 kHz-spaced channels beginning at 29.52, 100 kHz repeater input/output spacing)

73, Gary, W3DTN, T-MARC PIO



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### Fauquier Amateur Radio Assoc., from page 35

like Airlie conference center will be the field of choice. This will be our first year there, so it should be fun.

A slower pace on club activities leaves more time for making contacts. Larry, K4LLQ was working overtime in May to complete phone patches. Larry is an Army MARS operator and provided phone patches for our troops supporting the UN peacekeeping effort in Bosnia. Larry contacted a station in a camp near Skopje, Macedonia, fifteen miles from the Serbian border. this wasn't the first time Larry provided very welcome calls home for our service men and women. Good job Larry!

Construction projects seemed to pick up as Field Day approached this year. The club completed some portable wooden towers to make emergency set-ups quicker. The old AD4IW "spaghetti masts" are still around if we need them though, along with the rather interesting video of our attempts to put them up! They've served well over the last few years. AB4YK was also doing

some pretty heavy sporadic-E prediction for the VHF tent's use. Last year's propagation was excellent in the VHF tent, and Neil says this is looking like a good year too.

The club has received its official call sign. The Fauquier Amateur Radio Association now sports the call N4YVU.

Don't forget the TOROID is always looking for good articles and gear wanted or for sale. Contact Woody, KC6NOT to make your contribution.

73, Mark, KD6AKC

**Mid-Atlantic Radio Club.** Become a part of one of the country's fastest growing vintage radio clubs. The Mid-Atlantic Antique Radio Club is an active group of radio collectors, restorers and historians. For a sample newsletter, write to Joe Koester at 249 Spring Gap South, Laurel, MD 20707. Phone (301) 725-4229.

[SWP]



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Estate sales for Widows assistance handled by a FAR club will be published without cost.

Your full name and address must be provided with each ad but need not be published. No ads will be accepted over the telephone and all ads must be prepaid. Ads that will be running for longer than 1 month must be accompanied by a letter stating the length that the ad is to be run. Since no effort is made to investigate advertisers, no warranty can be implied. Send all commercial and non-commercial advertising and Shack Sales to:

**John Queen, Auto-Call Editor**  
**755 Woodland Way, Owings, MD 20736**  
**(301) 855-0198**

Copy **MUST** be received by the 1st day of the month prior to the month of publication.

**WANTED:** HF Multi-band Beam or Vertical antenna. Will remove from your tower for the antenna. Also looking for Yaesu FT-767GX 6-meter and 440 modules. Call John/N5SJZ (301) 805-5761. [7/95]

**WANTED** for museum: Apple-1 and other pre-1980 microcomputers, also early microcomputer journals, newsletters and advertising literature. (703) 231-6478 or (703) 763-2321. [11/95]

**WANTED:** MFJ-812B (VHF SWR/Wattmeter) or equivalent. Phone (703) 370-1880; (703) 370-9049 FAX (Alexandria). [7/95]

**WANTED** dead or alive: Six meter transceivers, transmitters and receivers, desk mic by Heathkit for the HW-101. Call Jim, N3OHS (703) 243-5460. [8/95]

**WANTED:** Looking for 1956 Maryland ham tag, 1951 Virginia ham tag, and DC ham tag (any year). Cash or trade. Willard Prentice, W3VBM, 2419 Chetwood Circle, Timonium, MD 21093. Phone (410) 252-6287. [07/95]

**BUY/SELL/TRADE:** Miscellaneous issues U.S. Amateur Callbooks. 1914 thru 1980 SASE for list. Bob Arrowsmith W4JNN, P.O. Box 166, Annandale, VA 22003 (703) 560-7161. [07/95]

**WANTED:** Crank up tower mounted on trailer. KK4WW (703) 231-6478. [10/95]

**FOR SALE:** Ten Tec Corsair II (mint) with matching model 705 microphone plus Astron power supply model RS-35A. Manuals included. The Corsair was reconditioned and purchased from Ten Tec. Purchased by a novice student who never got on the air! Complete package \$850.00. Call Ron Hill, WB3KMX, (410) 643-5872, Kent Island. [07/95]

**FOR SALE:** EIMAC tube socket SK620A (new), silverplated with bypass capacitor and mounting clips, \$25.00. Ceramic Chimney, E.F. Johnson part number 124-0111-001 (new), \$10.00. Two 4X150's (new) and two used 4CX250's (used), \$50.00 or best offer. Dick Wallace, K3TND (301) 384-6366. [08/95]

**FOR SALE:** Kenwood TM-733 2/440 radio, packet (and 9600 Baud) ready new, \$550; Clegg FM-DX 2-meter 35 Watt synthesized radio, \$150; ICOM IC-27A 2-meter 25 Watt synthesized radio, \$175; Motorola Syntor (2 2-meter 40 watt) \$25 each Kantronics KPC-4, \$150; Kantronics KPC-9612, new, \$175; MS-400 4 port serial board with MS400.MOD done for IRQ sharing, \$50; STB 4-COM 4 port serial board, \$100; Hayes Optima 28.800 V.34 Modem, \$250; Microcom Fast ES 28.800 Modem, \$175; Cushcraft AOP-1 2,440 satellite antenna, \$100; 5-element 440 beam, \$35; Diamond X-510 dual band antenna, \$150; Diamond x-50 Dual band antenna, \$75; Bird 43 Wattmeter with 5 and 100 Watt 100-250 MHz slugs, \$125; New Diawa Cross needle VHF/UHF Wattmeter, \$85; Dentron WP-1A Power/SWR meter (Peak and average readings), \$50; Diawa 2-meter 5W in 80W out (I get more like 100) amp, \$125; Astron RS-20A 12V power supply, \$75; Motorola Signal Generator for servicing HF/VHF/UHF radios, \$50; New Radio Shack 1300 MHz hand held counter, \$100; Heath IB-1102 counter 2-meters and below w/ high accuracy time base, \$50; 1995 SAMS Callsign Database w/ county and all other options, \$40; 1994 SAMS Callsign Database w/ summer update, \$15; MFJ-1112 multi outlet, new, \$25; Please direct all inquiries to Stan Staten W3INK (301) 977-7987. Replies to my BBS will not work as much of this equipment was the BBS. [07/95]

**FOR SALE:** ICOM 901A 2m/440Mhz expandable, with fiber optic cable \$700, ICOM IC47A 440Mhz 25W mobile \$250, ICOM R72 HF Receiver mint \$625, COLLINS KWM2 HF Transceiver, \$500, GE MASTR II 100 Watt Solid State mobile tuned to 145.03 MHz w/schematics \$100, Great for Packet! 6M or UHF RCA 500 Low Band Mobile 100W \$35 ea, 2M RCA 500 Base Station or Repeater 100W \$75, 2M RCA 250W Amplifier w/power supply \$250, 2M MOTOROLA Mocom70 40W on 143.9tx/148.15rx CAP Repeater \$50. TEKTRONIX RM529 TV Waveform Monitor \$50, Mike Nowlen, WB4UKB, (703)716-1363 evenings or (703) 689-5923 days. [07/95]

**WANTED:** HEATHKIT, EICO, FISHER, DYNACO, or similar tube Audio Amp any condition. Mike Nowlen, WB4UKB, (703) 716-1363 evenings or (703) 689-5923 days. [07/95]



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[SWP]

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[596]

*Shack Sales continued next page*



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\$2,900.00 for all. Larry W3MSN (301) 894-3977. No shipping. Oxon Hill near beltway. [07/95]

**FOR SALE:** Galaxy GT 550 transceiver with matching spare finals, matching microphone and manual, 500 watts PEP. Sacrifice only \$159. Wanted to buy surplus military Jan tubes also Western Electric triodes. Call anytime Milt Levy W5QJT, 2042 Australia Way West #8, Clearwater, FL 34623. Telephone (813) 791-4703. [07/95]

**FOR SALE:** Kenwood TR-2400 batt & charger \$95. Closed circuit TV system with 3 Panasonic WV-1000 cameras & 4 Panasonic B&W monitors \$150. 4 new OKI brand desoldering stations \$25 each. W3FQE (410) 321-6856. [07/95]

**FOR SALE:** Good condition used briefcase, complete with handcuffs. Contains a bunch of funny looking knobs, switches, and lights. Has one red button marked 'launch'. Bought at government auction. Call John, KAØSEY at (301) 855-0198.

## Survivor's Assistance Program

The Foundation's Survivor's Assistance Program has been in operation for many years and has accomplished a great deal for the families of our Silent Keys. The program offers to help widows (and other family members) evaluate and dispose of radio equipment in an Amateur's estate. Listings of Estate Sales are carried in the Shack Sales of Auto-Call magazine free of charge, and major items may be offered for sale at local hamfests, etc. No fee or commission is charged the families.

One other option that should be considered is donating equipment to a club taking a tax write-off for the charitable contribution. The Survivor's Assistance Program can help you find a club that will make good use of the equipment. Some commercial operations are also willing to purchase the complete list of equipment and clear everything out at once. This may be the quickest solution in disposing of an estate.

Every ham is encouraged to maintain a list of his/her radio equipment, with realistic evaluations, and instructions on the disposition of any specific items you would like to have go to a special person or organization. Keep your family advised of your wishes.

For more information about the Survivor's Assistance Program contact any local Foundation member club or call Tony Young/WA3YLO at (301) 262-1917.



## SHACK SALES & COMMERCIAL ADVERTISING

Deadline for copy is the 1st of the month preceding the publication date. Shack sales will NOT be accepted over the telephone. Full address must be provided for our reference but need not be published. Each ad must include the full name of the advertiser. Each word, abbreviation, model number or group of letter/numbers is counted as one word. The entire telephone number - including city, state and zip code is counted as only one word. Remittance for all Shack Sales must accompany each ad.

Noncommercial Shack Sale advertising of amateur associated equipment is available to subscribers of Auto Call at 3¢ per word - with a \$1.00 Minimum. Commercial Vendors and nonsubscribers rate is 17¢ per word with a \$5.50 minimum.

Special Headings or special spacing may be used (e.g., one item per line) but such ads are charged at a column inch rate - \$1.00 per inch for noncommercial ads, \$5.50 per inch for commercial vendors and nonsubscribers.

Commercial vendors should include the ad size and length of run (e.g. 1 year, 6 times, etc.) on company letterhead

and it must be signed by the person authorizing payment for the ad. Full name and address must be provided with each ad but need not be published. Payment should be included when the ad is submitted for publication. No ads will be accepted over the telephone. Since no effort is made to investigate advertisers, no warranty can be implied.

DISPLAY ADS are "Boxed" and may contain artwork or photographs. Requests for specific placement in the magazine will be honored if practical but cannot be guaranteed. Display ads are charges according to size as shown below, based on camera ready copy. All advertising must be prepaid for at least the current month.

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1/3	40.00	46.00	51.00	54.00
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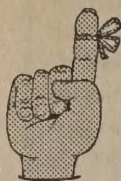
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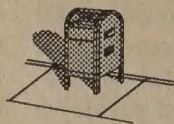




# Auto Call Production Policy



**Deadline:** The deadline for ALL submissions to *Auto Call* is the 1st day of the month prior to the month of publication. When submitting via regular mail, time your mailing to ensure delivery by the 1st of the month.



**Regular Mail:** Mail typewritten or computer generated hard copy to: John Queen, Editor, Auto Call Magazine, 755 Woodland Way, Owings, MD 20736. Ensure that your printed material is dark enough for scanning.

## Submitting Material to *Auto Call*

Submissions for *Auto Call* will be accepted in the following formats:



**Electronically:** Submissions are accepted in any of the following ways: Via the BWIBBS (WB3V) at (410) 312-2219, E-mail message or upload file to KAØSEY. Or via any of the major on line services directly or over the Internet. Use the applicable format exactly as follows:

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**AppleLink** - johnqueen@aol.com@internet#

**AT&T Mail** - internet!aol.com!johnqueen

**BitNet** - johnqueen@aol.com@cunyvnm

**CompuServe** - INTERNET:johnqueen@aol.com

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**Computer Disk:** Submissions are accepted on 3.5" or 5.25" computer disk, in either Macintosh or MS-DOS format, using Word, WordPerfect, or standard ASCII text files. Write your name, telephone number, and club name on the disk. Submit graphic files (club logos, etc) in an EPS or TIFF format. Please verify the readability of your computer files before sending. If you want your computer disk returned immediately, include a SASE envelope with .32 postage. Otherwise, disks will be returned only in person at FAR meetings.

## Preparing Material for Submission

**Club Columns:** Member clubs are allocated one full page in each issue for club columns. In determining space requirements, figure about 700 words per page not including the space taken up by headings, photos, etc. Indent paragraphs .25" and double space to begin a new paragraph. Send club header information ONLY when different from what was published from previous month.

**Hamfests/Events:** Member clubs are allocated one full page per year to promote one club sponsored hamfest, convention, or special event. Submit clean black & white camera ready copy only by mail. Master copy should be in black ink on white paper and should be in proper page ratio, (Copy space is 7" wide by 9" high). Copy can be reduced or enlarged as necessary. Electronic submissions of Hamfest ads will not be accepted.

**Photographs:** The editor will select the best photograph submitted for the cover each month. Photographs should depict club members, club stations, or amateur radio related events that are current and noteworthy. Clubs may also submit photographs for inclusion with their club column. Photographs will be used in columns when space permits. Either B&W or color photos can be used. For each photograph submitted, write your name, phone number, and club name, along with a description of the photograph on a piece of paper, and tape it on the back of the photograph. Do not write on the back of your photo. If you want your photos returned immediately, include a SASE envelope with sufficient postage. Otherwise, photos will be returned only in person at FAR meetings.





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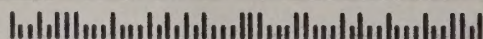
# Area Club Meetings - July 1995

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
 <b>Celebrate a safe and happy Independence Day on July 4th!</b>						<b>1</b> Green Mtn.
<b>2</b>	<b>3</b> DOSARC	<b>4</b> Antietam PG Wireless	<b>5</b> BARC	<b>6</b> Anne Arundel VOA	<b>7</b> Shenandoah	<b>8</b> North Point
<b>9</b> BRATS Hamfest Metro Comm.	<b>10</b> Carroll Co.	<b>11</b> Woodbridge	<b>12</b> FAR (VA) So. Patuxent	<b>13</b> MADRAS Mt. Vernon Mid-Atlantic	<b>14</b> Southern MD	<b>15</b>
<b>16</b>	<b>17</b> OVHA	<b>18</b> Antietam Arlington	<b>19</b> QCWA BARC Goddard	<b>20</b> Anne Arundel	<b>21</b> Shenandoah	<b>22</b>
<b>23/ 30</b> Mid-Atlantic Hamfest	<b>24/ 31</b> T-MARC Green Mtn.	<b>25</b> Columbia Green Mtn.	<b>26</b> Laurel	<b>27</b> MADRAS St. Mary's	<b>28</b> Central MD	<b>29</b>



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